STR-WX5

SERVICE MANUAL

E Model
Australian Model
Tourist Model

STR-WX5 is the tuner and amplifier section in MHC-WX5.

SPECIFICATIONS

Amplifier section

The following measured at AC 120, 220, 240V 50/60Hz

DIN power output (Rated) (FRONT)
120 + 120W (6 Ω at 1kHz DIN)

Continuous RMS power output (Reference)
150 + 150 W
(6 Ω at 1kHz, 10% THD)

Inputs	MD/VIDEO 1 IN (phono jacks): voltage 450/250mV, impedance 47kΩ AV INPUT AUDIO (phono jacks): voltage 250mV, impedance 47kΩ MIX MIC (phone jack): sensitivity 1mV, impedance 10kΩ
Output	MD/VIDEO 1 OUT (phono jacks): voltage 450/250mV, impedance 1kΩ PHONES (stereo phone jack): accepts headphones of 8Ω or more. FRONT SPEAKER: accepts impedance of 6 to 16Ω REAR SPEAKER: accepts impedance of 16Ω SUPER WOOFER: Voltage 1V, impedance 1kΩ

Video section

Inputs	AV INPUT VIDEO (phono jack): 1Vp-p, 75Ω
Outputs	MONITOR OUT (phono jack): 1Vp-p, 75Ω

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	87.5 – 108.0MHz
Antenna terminals	75Ω unbalanced
Intermediate frequency	10.7MHz

AM tuner section

Tuning range

Latin America models:	530 – 1,710kHz (10kHz step) 531 – 1,710kHz (9kHz step)
Middle Easten models:	531 – 1,602kHz(with the MW interval set at 9kHz) 5.95 – 17.90MHz (with the SW interval set at 5kHz)

Australian, Israel, and Thai models :
531 – 1,602kHz(with the AM tuning interval set at 9kHz)
530 – 1,710kHz (with the AM tuning interval set at 10kHz)

Other models:	MW : 531 – 1,602kHz(with the MW tuning interval set at 9kHz) 530 – 1,710kHz (with the MW tuning interval set at 10kHz) SW : 5.95 – 17.90 MHz (with the SW tuning interval set at 5kHz)
Intermediate frequency	450kHz
Antenna	AM loop antenna External antenna terminal

— Continued on next page —

FM STEREO/FM-AM RECEIVER

MICROFILM

SONY®

General

Power requirements	
Australian model:	240V AC, 50/60Hz
Israel and Thailand models:	
	220V AC, 50/60Hz
Other models:	120V or 220V or 230 – 240, 50/60Hz Adjustable with voltage selector
Power consumption	290W
Dimensions (w/h/d)	Approx. 288 × 205 × 375mm
Mass	Approx. 7.8kg

Design and specifications are subject to change without notice.

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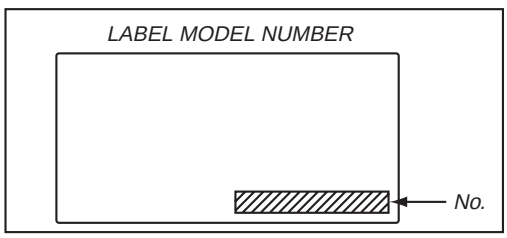
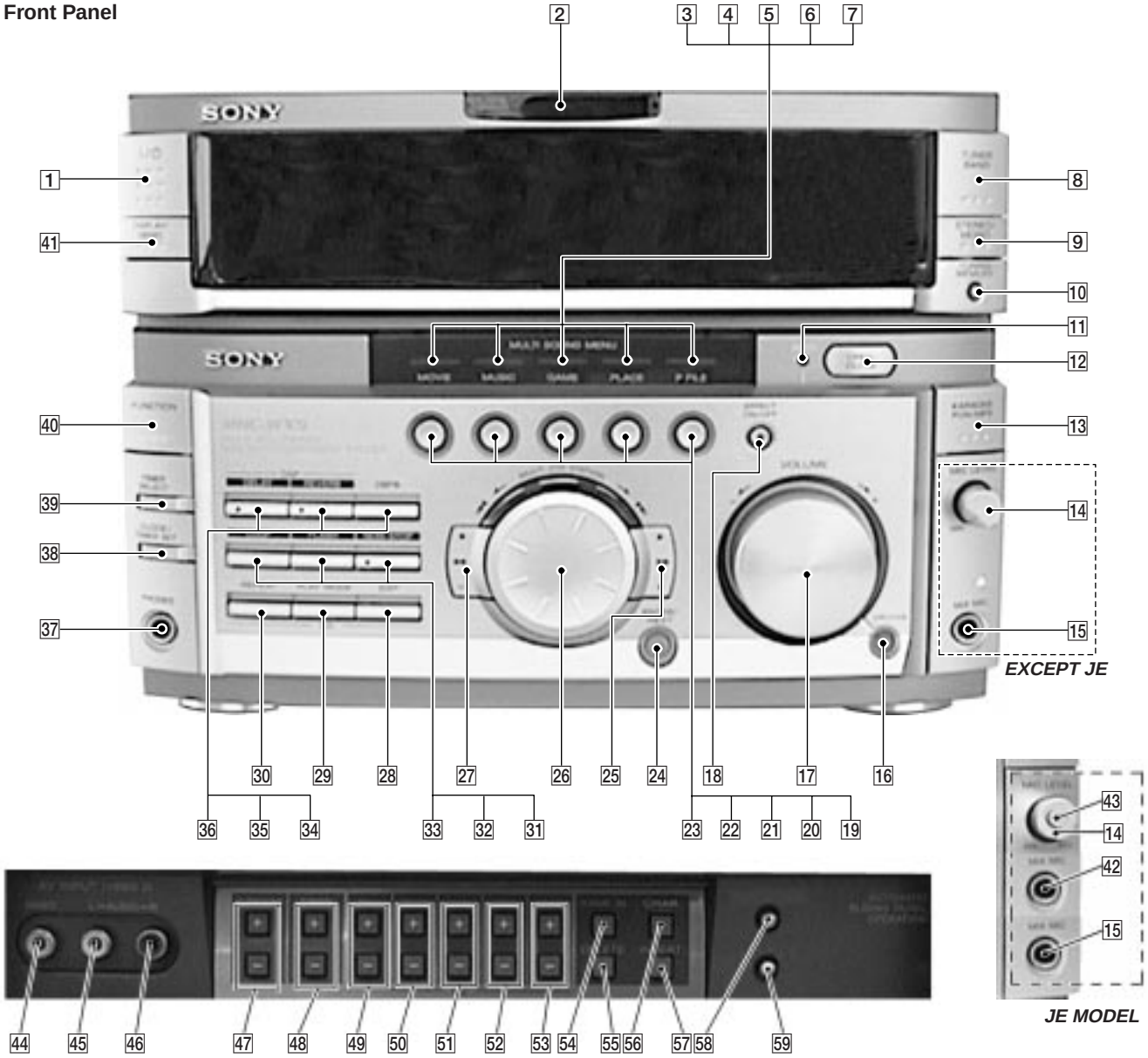
MODEL IDENTIFICATION
— BACK PANEL —



MODEL	PART No.
EXCEPT Israel, Thai model	4-900-848-0☐
Israel, Thai model	4-900-848-1☐

SECTION 1
GENERAL

Front Panel



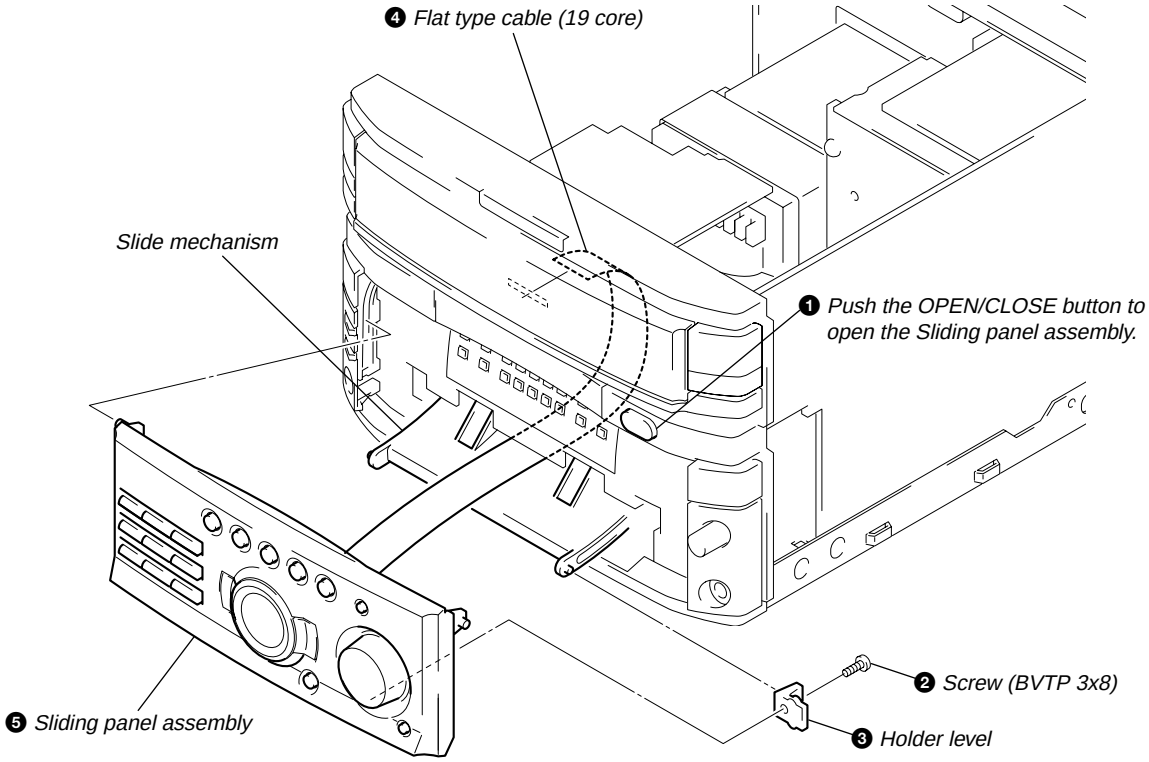
1 I/⏻ (Power) button
2 SLIDING SENSOR window
3 MOVIE indicator
4 MUSIC indicator
5 GAME indicator
6 PLACE indicator
7 P FILE indicator
8 TUNER/BAND button
9 STEREO/MONO button
10 MEMORY button
11 AUTO indicator
12 OPEN/CLOSE button
13 KARAOKE PON/MPX button
14 MIC LEVEL knob
15 MIX MIC jack (EXCEPT JE model)
MIC 1 jack (JE model)
16 GROOVE button and indicator
17 VOLUME knob
18 EFFECT ON/OFF button and indicator
19 P FILE button
20 PLACE button
21 GAME button
22 MUSIC button
23 MOVIE button
24 ENTER/NEXT button and indicator
25 ▶▶ + button and indicator
26 ⏮ ← MULTI JOG STATION → ⏭ dial
27 ◀◀ – button and indicator
28 CD EDIT button
29 CD PLAY MODE button
30 CD REPEAT button
31 NON-STOP button and indicator
32 FLASH button
33 LOOP button
34 DBFB button
35 DSP REVERB button and indicator
36 DSP DELAY button and indicator
37 PHONES jack
38 CLOCK/TIMER SET button
39 TIMER SELECT button
40 FUNCTION button
41 DISPLAY/DEMO button
42 MIC 2 jack (JE model)
43 ECHO LEVEL knob (JE model)
44 VIDEO (AV INPUT (VIDEO 2)) jack
45 AUDIO-L (AV INPUT (VIDEO 2)) jack
46 AUDIO-R (AV INPUT (VIDEO 2)) jack
47 SURROUND +/– buttons
48 DBFB +/– buttons
49 63Hz +/– buttons
50 250Hz +/– buttons
51 1kHz +/– buttons
52 4kHz +/– buttons
53 16kHz +/– buttons
54 NAME IN button
55 DELETE button
56 CHAR button
57 INSERT button
58 OPEN SENSOR ON/OFF button
59 EQ MEMORY button

• Abbreviation
JE : Tourist model.

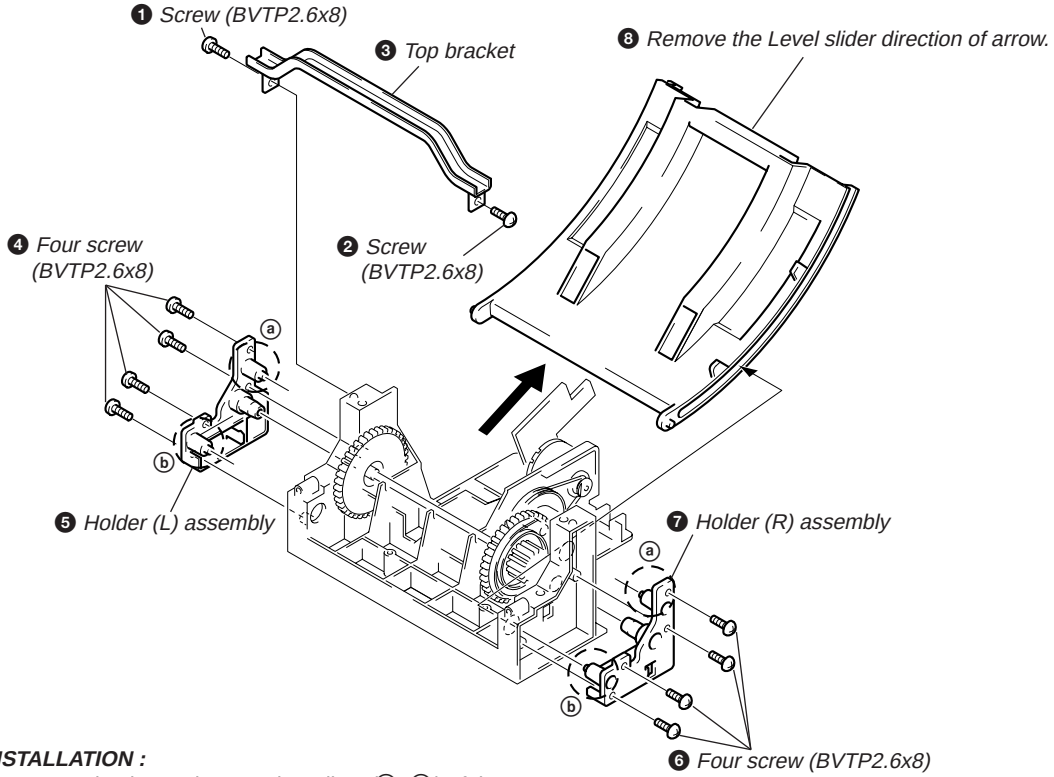
SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

2-1. SLIDING PANEL ASSEMBLY


❹ Flat type cable (19 core)
Slide mechanism
❶ Push the OPEN/CLOSE button to open the Sliding panel assembly.
❷ Screw (BVTP 3x8)
❸ Holder level
❺ Sliding panel assembly

2-2. LEVEL SLIDER

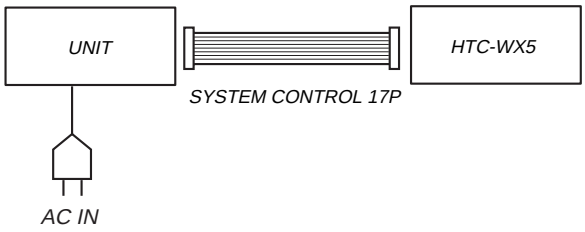


NOTE FOR INSTALLATION :
Attach in the reverse order, but make sure the rollers (ⓐ, ⓑ) of the holder (L) assembly and holder (R) assembly fit into the grooves of the level slider.

SECTION 3
SERVICE MODE

Connections and Operations When Used Alone

Normally, use the unit connected to the HTC-WX5 as follows.
Basically, when servicing the unit, connect the unit as follows.



Even when not connected to the HTC-WX5, the unit can operate alone as it mounts a power supply (some functions will however not be available).

MC Cold Reset

• The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. Press three buttons [EDIT] , [ENTER/NEXT] , and [DISPLAY/DEMO] simultaneously.
2. The fluorescent indicator tube becomes blink instantaneously, and the set is reset.

CD Delivery Mode (This mode can be used only when the HTC-WX5 is connected.)

• This mode moves the pick-up to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press [I/⏻] button to turn the set ON.
2. Press [LOOP] button and [I/⏻] button simultaneously.
3. A message “LOCK” is displayed on the fluorescent indicator tube, and the CD delivery mode is set.

MC Hot Reset

• This mode resets the set with the preset data kept stored in the memory. The hot reset mode functions same as if the power cord is plugged in and out.

Procedure:

1. Press three buttons [REPEAT] , [ENTER/NEXT] , and [DISPLAY/DEMO] simultaneously.
2. The fluorescent indicator tube becomes blink instantaneously, and the set is reset.

Sled Servo Mode (This mode can be used only when the HTC-WX5 is connected.)

• This mode can run the CD sled motor freely. Use this mode, for instance, when cleaning the pick-up.

Procedure:

1. Select the function “CD”.
2. Press three buttons [FLASH] , [ENTER/NEXT] , and [KARAOKE PON/MIX] simultaneously.
3. The Sled Servo mode is selected, if “CD” is blinking on the fluorescent indicator tube.
4. With the CD in stop status, press [▶▶ +] button move the pick-up to outside track, or [– ◀◀] button to inside track.
5. To exit from this mode, perform as follows:
   1) Move the pick-up to the most inside track.
   2) Press three buttons in the same manner as step 2.

Note:

• Always move the pick-up to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
• Do not run the sled motor excessively, otherwise the gear can be chipped.

Change-over of FUNCTION Name

• The FUNCTION name of external input terminal can be changed over to VIDEO 1 or MD. With the FUNCTION selected to “MD”, about 5dB mute is applied to the input gain.

Procedure:

1. Press [I/⏻] button to turn the set OFF.
2. Press [I/⏻] button together with [FUNCTION] button, and the power is turned on, the display of fluorescent indicator tube changes to “MD” or “VIDEO 1” instantaneously, and thus the FUNCTION is changed over.

Change-over of AM Tuner Step between 9kHz and 10kHz

• A step of AM channels can be changed over between 9kHz and 10kHz.

Procedure:

1. Press [I/⏻] button to turn the set ON.
2. Select the function “TUNER”, and press [TUNER BAND] button to select the BAND “MW”.
3. Press [I/⏻] button to turn the set OFF.
4. Press [ENTER/NEXT] and [I/⏻] buttons simultaneously, and the display of fluorescent indicator tube changes to “MW step 10” or “MW step 9”, and thus the channel step is changed over.

LED and Fluorescent Indicator Tube All Lit, Key Check Mode (Do not connect the HTC-WX5.)

Procedure:

1. Press I/⏻ button to turn the set ON.
2. Press the OPEN/CLOSE button to open the sliding panel.
3. Press three buttons DSP DELAY , ENTER/NEXT , and DISPLAY/DEMO simultaneously.
4. LEDs and fluorescent indicator tube are all turned on. Each time the MOVIE button is pressed, the fluorescent indicator tube lights up as follows:
   lights up completely ⟶ lights up partially 1 ⟶ lights up partially 2 ⟶ lights up completely.
5. Press GAME button, and the key check mode is activated.
6. In the key check mode, the fluorescent indicator tube displays “K @@ J0 V0”. Each time a button is pressed, “K”value decreases. However, once a button is pressed, it is no longer taken into account. (@@ means the total of buttons)
   “J” Value increases like 1, 2, 3 ... if rotating JOG knob in “+” direction, or it decreases like 0, 9, 8 ... if rotating in “-” direction.
   “V” Value increases like 1, 2, 3 ... if rotating VOLUME knob in “+” direction, or it decreases like 0, 9, 8 ... if rotating in “-” direction.
7. Pressing all buttons lights up the fluorescent indicator tube completely.
8. To exit from this mode, press three buttons EDIT , ENTER/NEXT and DISPLAY/DEMO simultaneously. (COLD RESET)
9. To exit from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

CD, TAPE Deck Aging Mode (This mode can be used only when the HTC-WX5 is connected.)

This mode can be used for checking the operations of the CD player and tape deck.

- When problems occur;
  Aging stops, and the stopped state is displayed on the fluorescent indicator tube.
- When no problems;
  Aging continues.

Preparations:

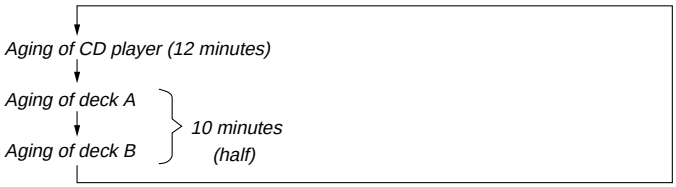
- Set the CD on the DISC1 tray.
- Insert a commercially available tape for recording (tapes which contents can be erased, etc.) in decks A and B.

Setting the aging mode:

Press the PLAY MODE button, ENTER/NEXT button, and STEREO/MONO button together.
When the aging mode is set, the CD roulette mark blinks. To exit the mode, press the I/⏻ button and turn OFF the power.

Sequence:

The aging mode is executed in the following sequence.
If the function is set to “CD” when the aging mode is set, aging is performed starting from the CD player. When set to “TAPE A” or “TAPE B”, aging is started from deck A.
If the function is set to others, aging will not be started until the function is switched to CD or TAPE.



Display of status:

- The aging status is displayed on the fluorescent indicator tube.
- Normally, the CD player displays the remaining aging time. But if operations ended abnormally, it displays the cause.
- During the aging of the tape deck, the operations performed will be displayed. If operations ended abnormally, this will be displayed at the fluorescent display tube.

CD Player

- During normal operations:
  Display of fluorescent indicator tube

**1-@@

**: Displays “CD” and the remaining aging time (minutes) alternately. The remaining aging time is counted down from 12.

@@: Track number being accessed.

• When operations end abnormally:

Display of fluorescent display tube

Display	Main Cause
NO DISC ERR	DISC 1 is NO DISC from the beginning
FOCUS1 ERR	Focus is not imposed properly
FOCUS2 ERR	The focus deviated several times after the disc rotated normally
GFS ERR	GFS ERROR
FBIAS ERR	Error during focus bias adjustment
SENSOR ERR	DISC 1 was found to be NO DISC by the disc sensor
TABLE ERR	The table did not rotate normally
TRAY ERR	The tray containing the BD did not operate normally

Tape Deck

Display of Operations	Operation	Timing of Ending
TAPE A AG-1	TAPE A, B REW	Shutoff
TAPE A AG-2	TAPE A FWD	100 seconds playback
TAPE A AG-3	TAPE A FF	20 seconds or shutoff
TAPE A AG-4	TAPE A REV	100 seconds playback
TAPE A AG-5	TAPE A REW	Shutoff
TAPE B AG-1	TAPE B REW	Shutoff
TAPE B AG-2	TAPE B FWD	100 seconds playback
TAPE B AG-3	TAPE B FF	20 seconds or shutoff
TAPE B AG-4	TAPE B REV	100 seconds playback
TAPE B AG-5	TAPE B REW	Shutoff

Operations during aging

• Operations are performed in the following sequence during aging.

<CD player>

1. The CD tray rotates and disc 1 is selected.
2. Chucking is performed.
3. TOC is read.
4. Track 1 played back for 2 seconds.
5. The last track is played back for 2 seconds.
6. 1 to 5 is repeated.
7. After 12 minutes of aging, aging is switched to the tape deck.

<Tape Deck>

1. The tape in deck A and B are rewound to the head at the same time.
2. The FWD side is played back for 100 seconds.
3. The tape is fast forwarded (FF) for 20 seconds. The following procedure is performed when the tape end is reached before the 20 seconds.
4. The REV side is played back for 100 seconds.
5. The tape is rewound to the head (REW).
6. The FWD side is played back for 100 seconds.
7. The tape is fast forwarded (FF) for 20 seconds. The following procedure is performed when the tape end is reached before the 20 seconds.
8. The REV side is played back for 100 seconds.
9. The tape is rewound to the head (REW).
10. The tape in deck A is rewound to the head.
11. The FWD side is played back for 100 seconds.
12. The tape is fast forwarded (FF) for 20 seconds.
    The following procedure is performed when the end is reached before the 20 seconds.
13. Aging is switched to the CD player.

PANEL Aging Mode

This mode is used for opening and closing the sliding panel continuously.

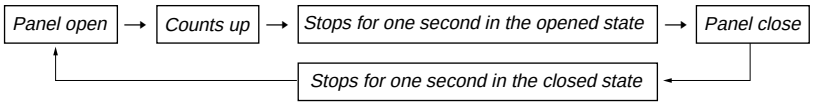
Setting the aging mode :

With the set at standby condition, press FLASH button, ENTER/NEXT button and STEREO/MONO button together.
The aging will start and sliding panel will follow aging sequence as described below.

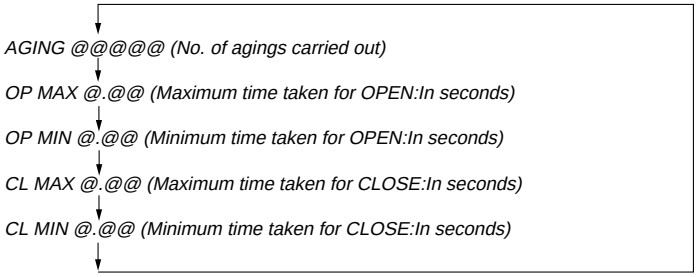
- When problems occur ;
  Aging stops and “AGING ERROR” is displayed on the fluorescent indicator tube.

- When no problems;
  Aging is carried out repeatedly. After 65000 times, “AGING STOP” is displayed and aging stops.

Aging Sequence

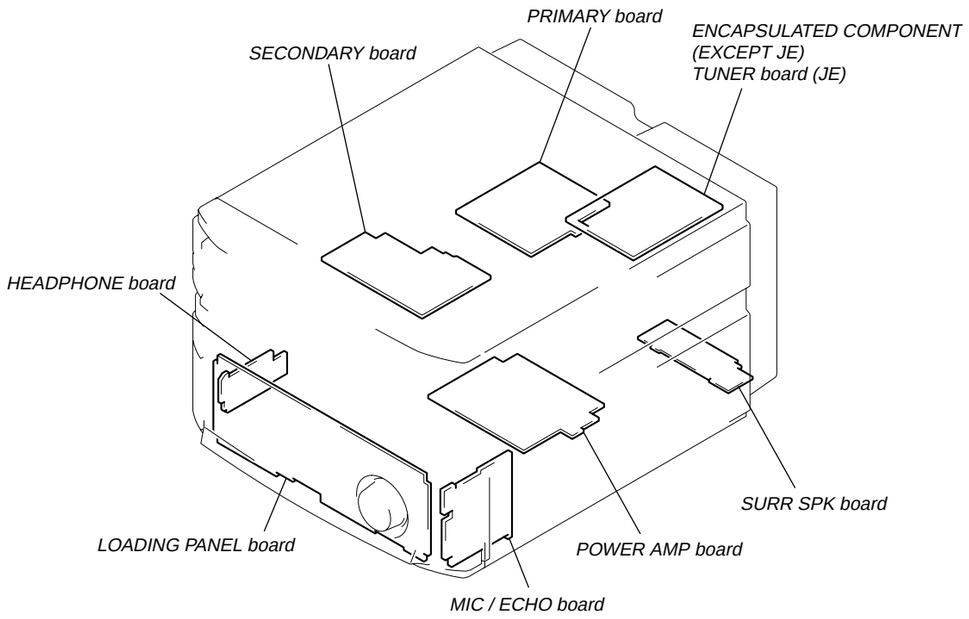


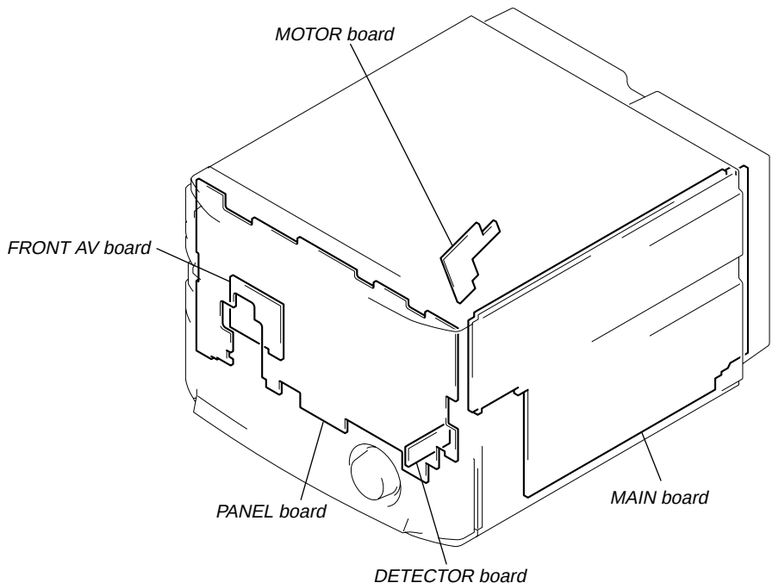
Each time the DISPLAY/DEMO button is pressed, the display switches as follows.


AGING @@@@@ (No. of agings carried out)
OP MAX @.@@ (Maximum time taken for OPEN:In seconds)
OP MIN @.@@ (Minimum time taken for OPEN:In seconds)
CL MAX @.@@ (Maximum time taken for CLOSE:In seconds)
CL MIN @.@@ (Minimum time taken for CLOSE:In seconds)

SECTION 4
DIAGRAMS

4-1. CIRCUIT BOARDS LOCATION





THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For schematic diagrams.

Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

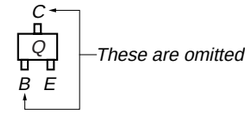
- B+ : B+ Line.
- B− : B– Line.
- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - : FM
  - : AM
  - : AUDIO (AV INPUT)
  - : MD/VIDEO
  - : VIDEO (AV INPUT)
  - : PB (DECK A)
  - : REC (DECK B)
  - : CD
- Abbreviation
  - EA3 : Saudi Arabia model.
  - EA4 : Israel model.
  - EA : Middle East model. (Saudi Arabia and Israel)
  - AUS : Australian model.
  - SP : Singapore model.
  - MY : Malaysia model.
  - TW : Taiwan model.
  - JE : Tourist model.
  - AR : Argentine model.
  - TH : Thai model.

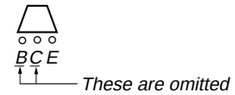
For printed wiring boards.

Note:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ○ : Through hole.
- △ : internal component.
- : Pattern from the side which enables seeing.

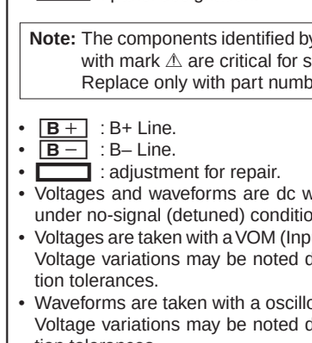
- **Indication of transistor**



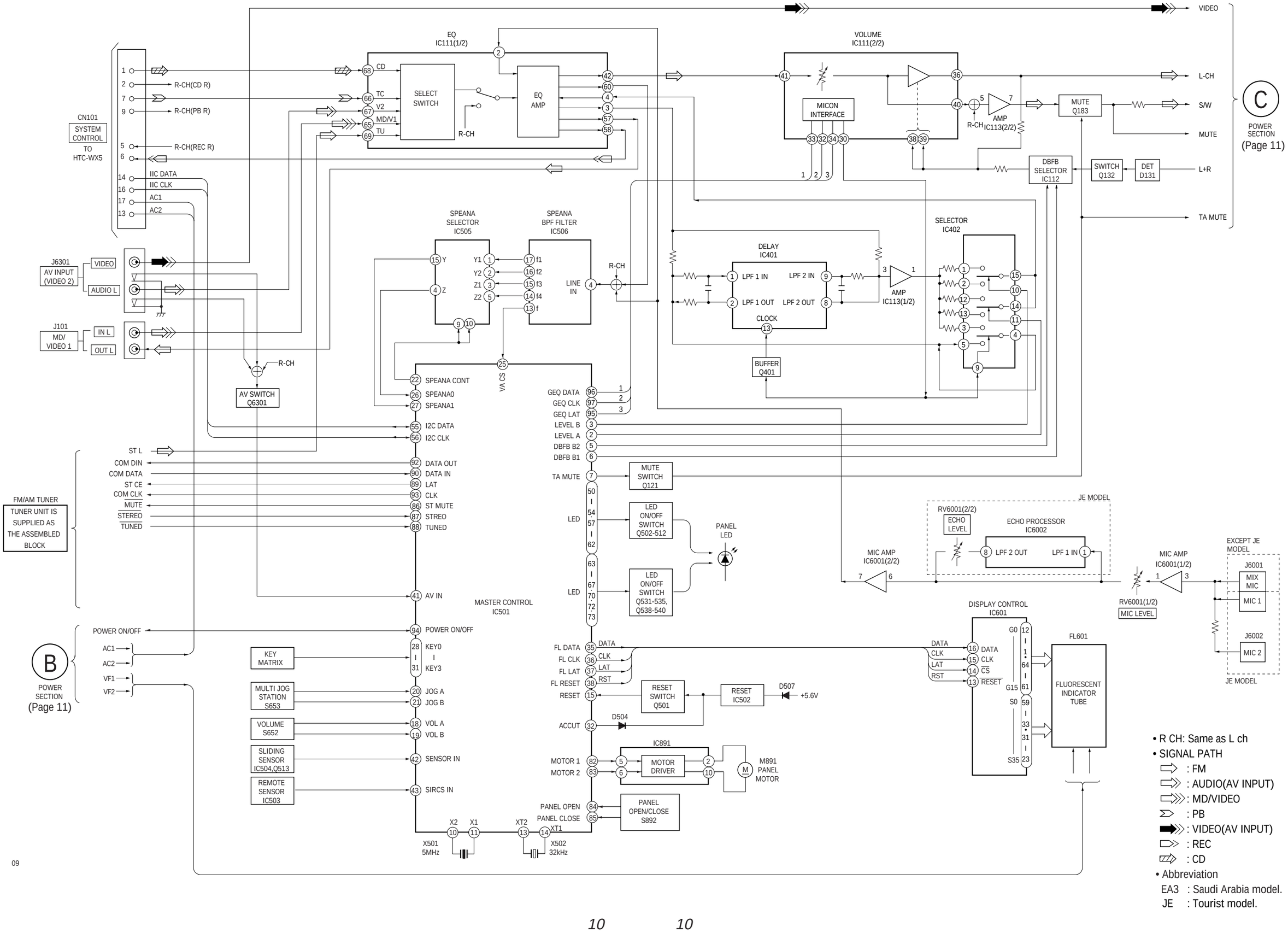


- **Waveform**

DISPLAY Section



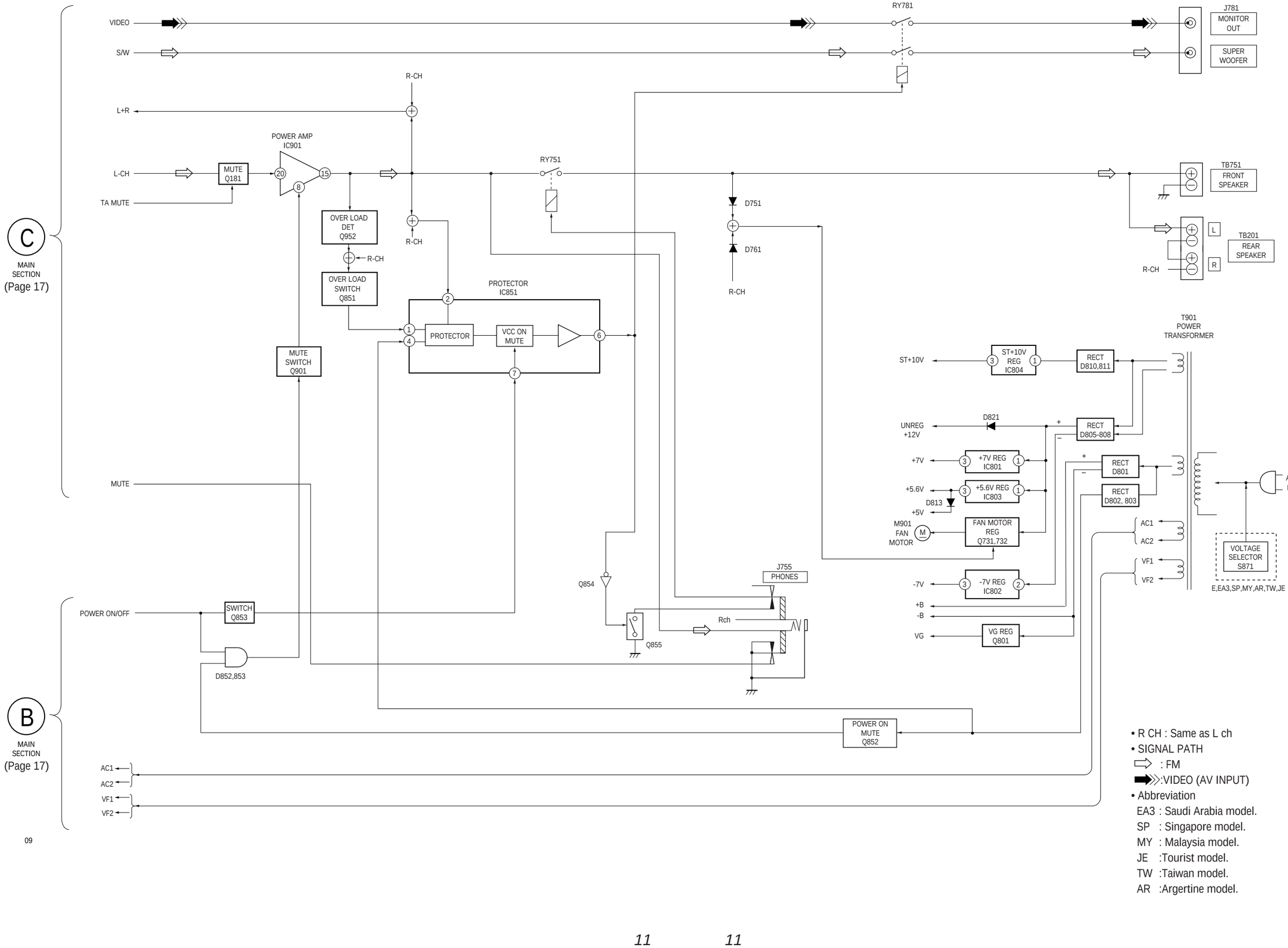
4-2. BLOCK DIAGRAM
MAIN SECTIOAN



- R CH: Same as L ch
- SIGNAL PATH
  - : FM
  - : AUDIO(AV INPUT)
  - : MD/VIDEO
  - : PB
  - : VIDEO(AV INPUT)
  - : REC
  - : CD
- Abbreviation
  - EA3 : Saudi Arabia model.
  - JE : Tourist model.

09

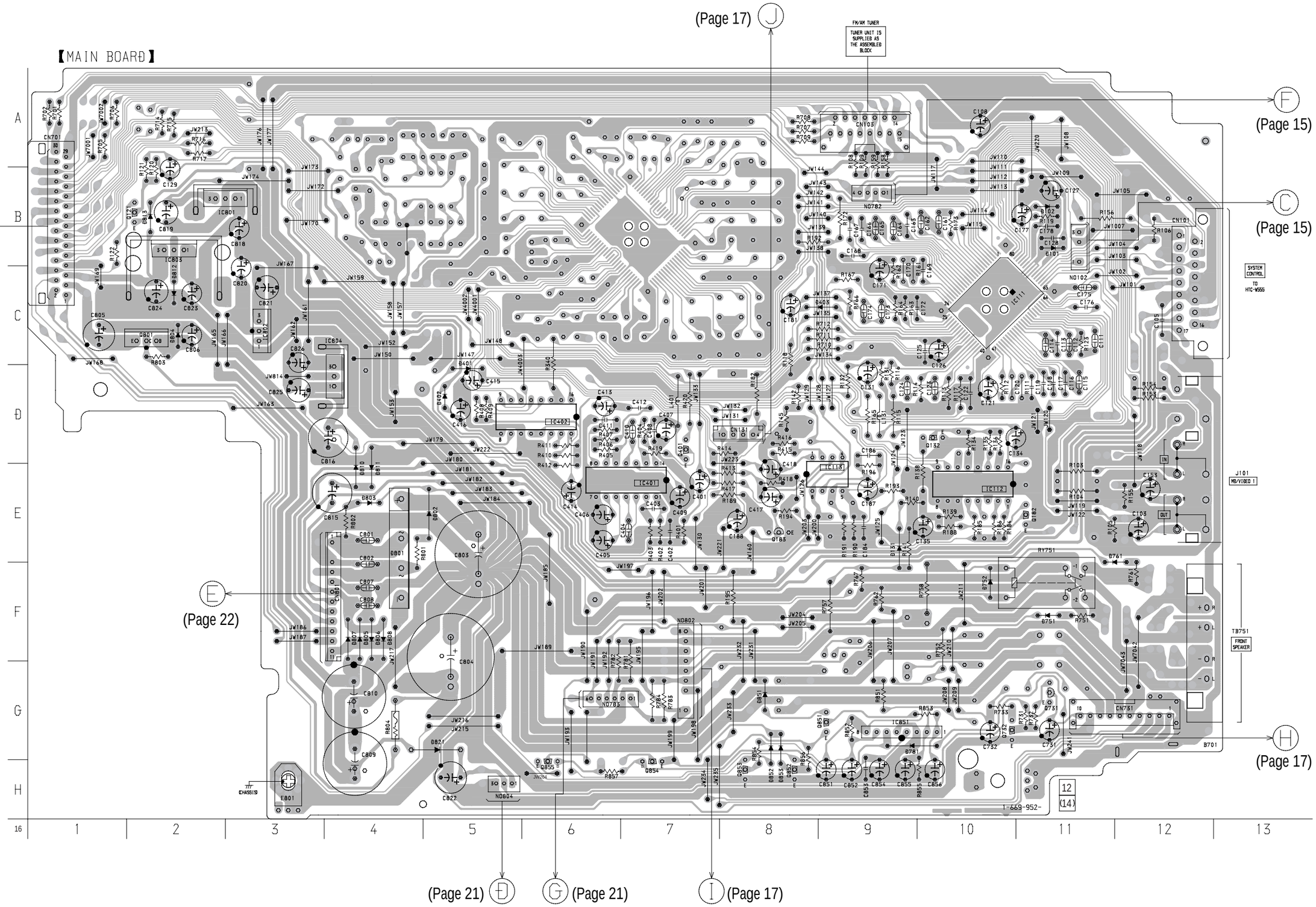
POWER SECTION



- R CH : Same as L ch
- SIGNAL PATH
  ⇨ : FM
  ➡⋙:VIDEO (AV INPUT)
- Abbreviation
  EA3 : Saudi Arabia model.
  SP : Singapore model.
  MY : Malaysia model.
  JE :Tourist model.
  TW :Taiwan model.
  AR :Argertine model.

4-3. PRINTED WIRING BOARD MAIN SECTION

• Refer to page 9 for Circuit Boards Location.



- **Semiconductor Location**

Ref. No.	Location
D101	B-11
D102	B-11
D131	E-9
D401	D-5
D402	D-5
D403	C-9
D751	F-11
D752	F-12
D761	E-12
D781	G-10
D801	E-4
D802	F-5
D803	E-4
D804	C-2
D805	F-4
D806	F-4
D807	F-4
D808	F-4
D810	E-4
D811	E-4
D812	C-2
D813	B-2
D851	G-8
D852	G-8
D853	G-8
IC111	C-10
IC112	E-10
IC113	E-9
IC401	E-7
IC402	D-6
IC801	B-2
IC802	C-3
IC803	B-2
IC804	D-4
IC851	G-9
Q121	B-2
Q132	D-10
Q182	E-11
Q183	E-8
Q401	D-7
Q731	G-11
Q732	G-10
Q801	C-2
Q851	G-9
Q852	H-8
Q853	H-8
Q854	H-7
Q855	H-6

4-4. SCHEMATIC DIAGRAM MAIN(1/2) SECTION

• Refer to page 24 for IC Block Diagrams.

【MAIN BOARD (1/2)】

NOTE

- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark:FM

(Page 15) C

SYSTEM CONTROL TO HTC-WX5

J101 MD/VIDEO 1 OUT R L IN R L

CN101 17P

CN103 15P

FM/AM TUNER
TUNER UNIT IS SUPPLIED AS THE ASSEMBLED BLOCK

CN701 50P

IC401 DELAY

IC402 SELECTOR

IC111 SOUND PROCESSOR

IC113 (1/2) AMP

5BAND GRAPHIC EQUALIZER

MICON INTERFACE

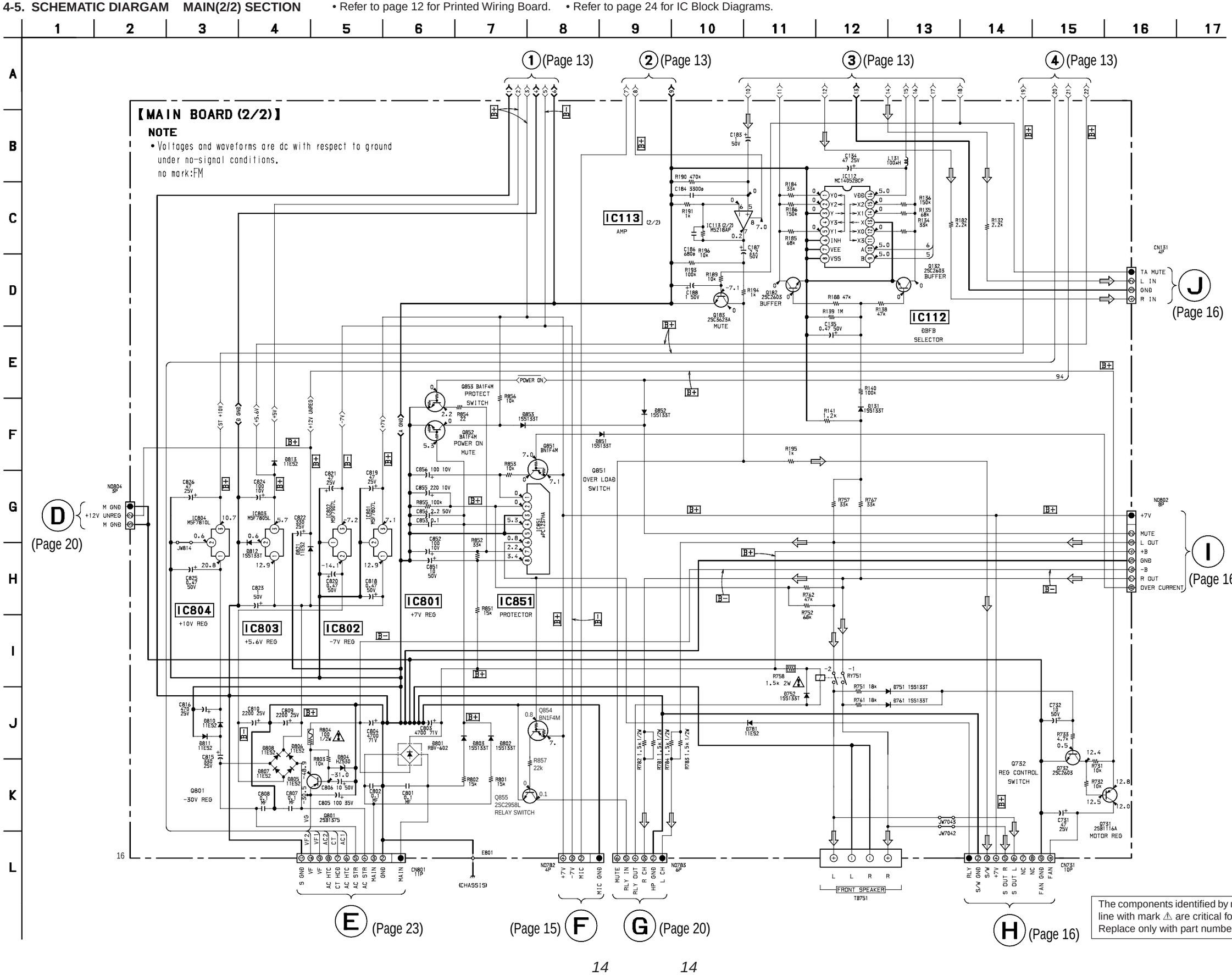
Q121 BN1A4M MUTE

B (Page 18)

1 (Page 14) 2 (Page 14) 3 (Page 14) 4 (Page 14)

4-5. SCHEMATIC DIARGAM MAIN(2/2) SECTION

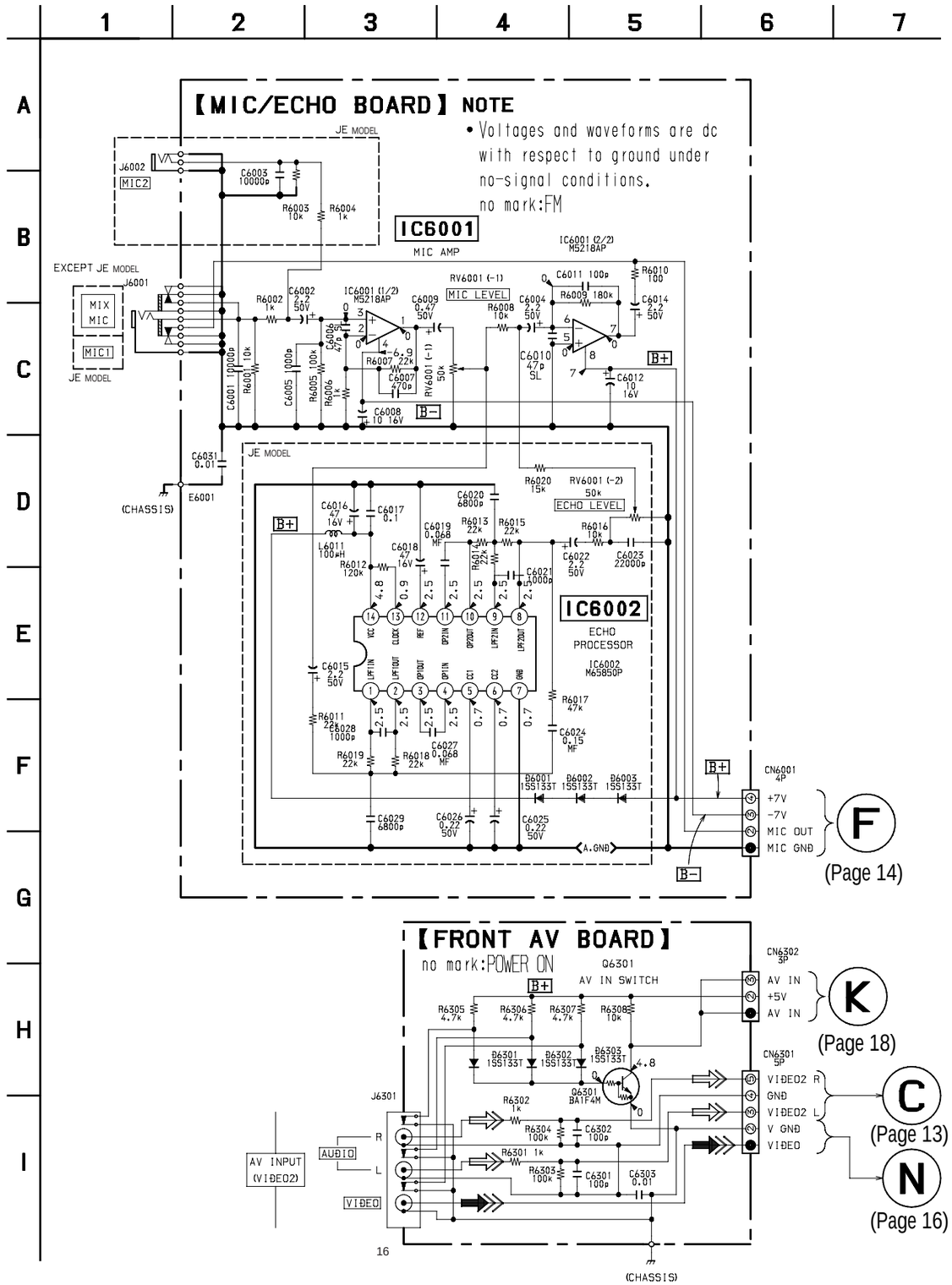
• Refer to page 12 for Printed Wiring Board. • Refer to page 24 for IC Block Diagrams.



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

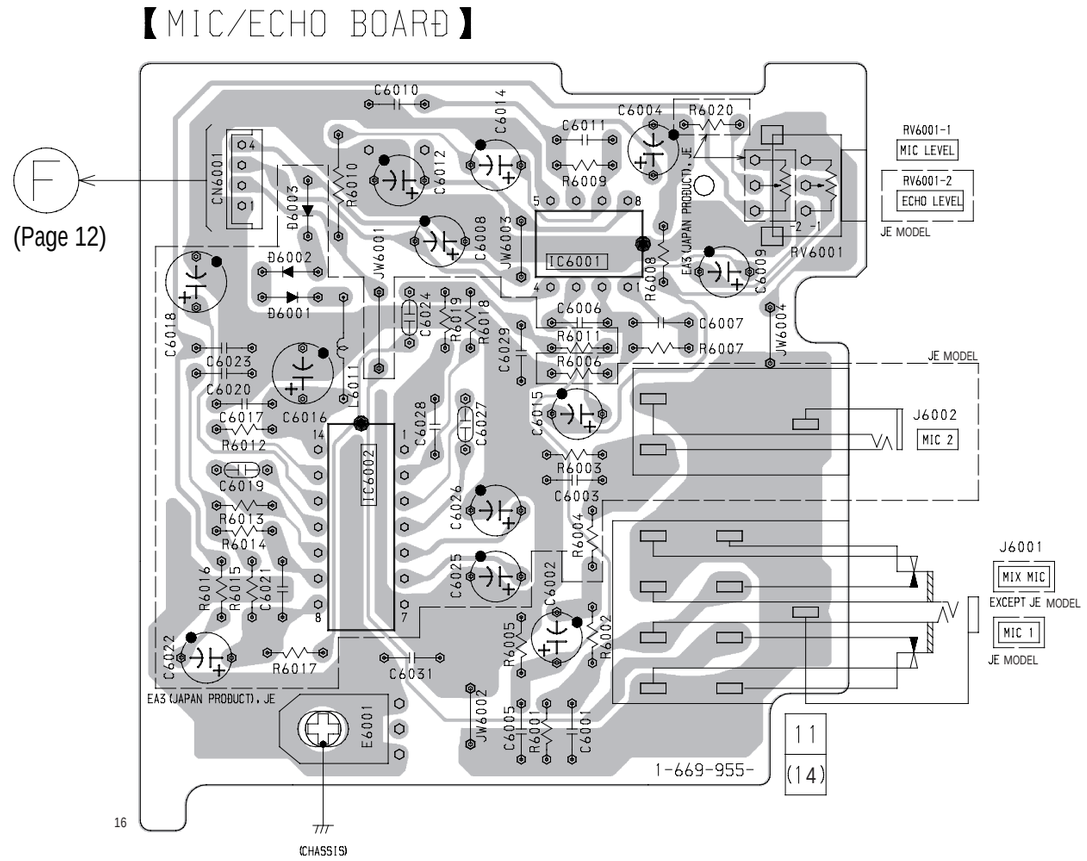
4-6. SCHEMATIC DIAGRAM AV/MIC SECTION

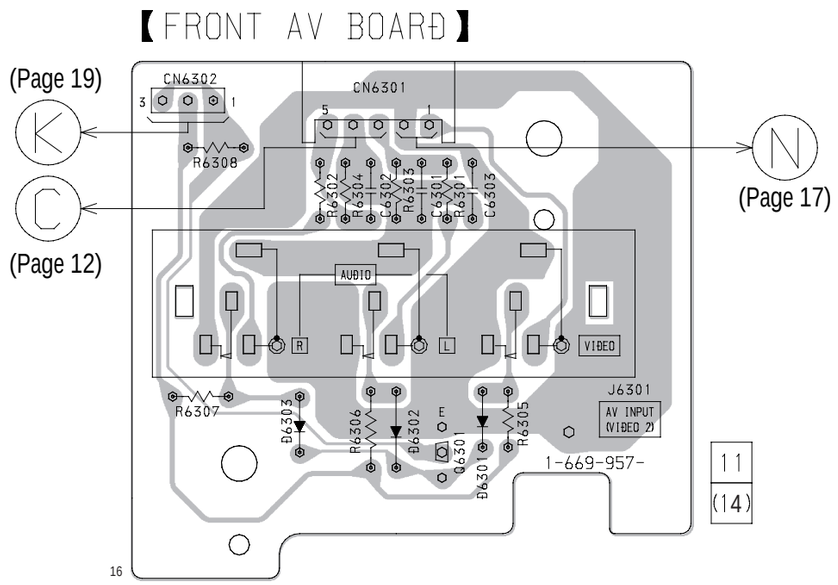
• Refer to page 24 for IC Block Diagrams.



4-7. PRINTED WIRING BOARD AV/MIC SECTION

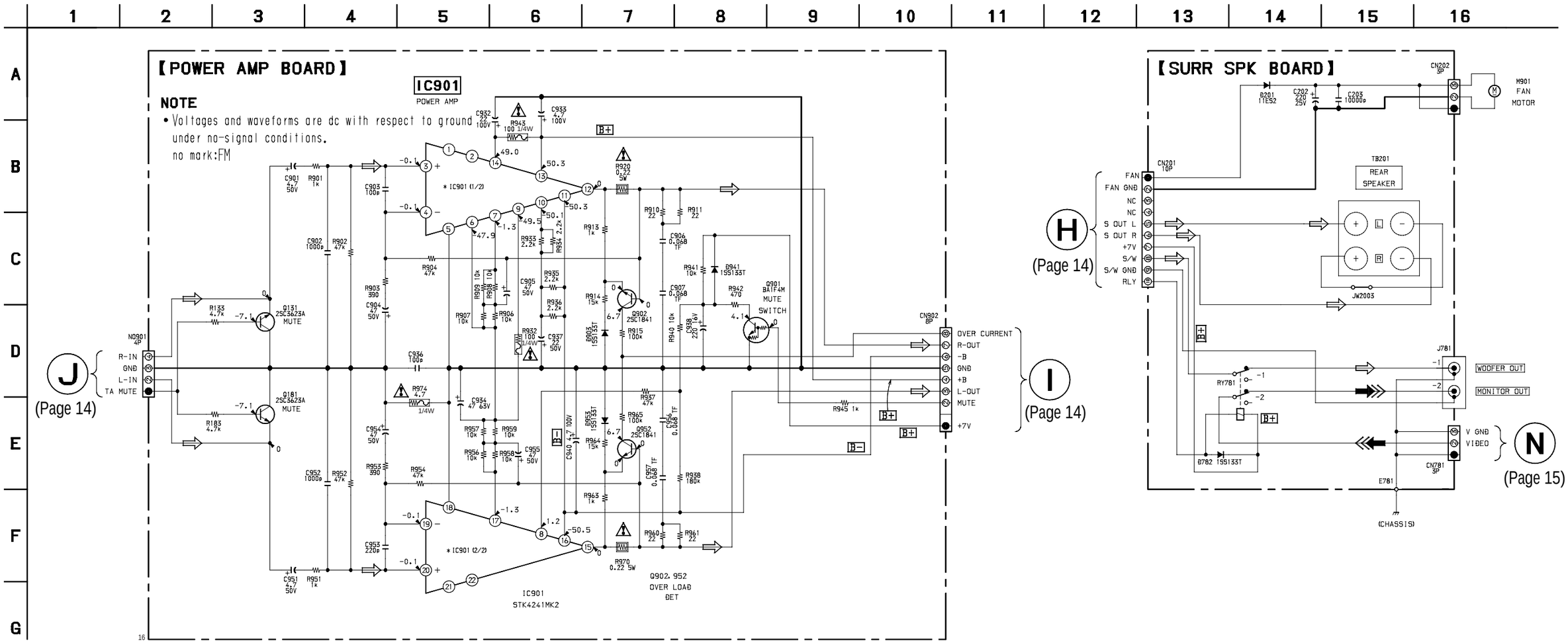
• Refer to page 9 for Circuit Boards Location.





15

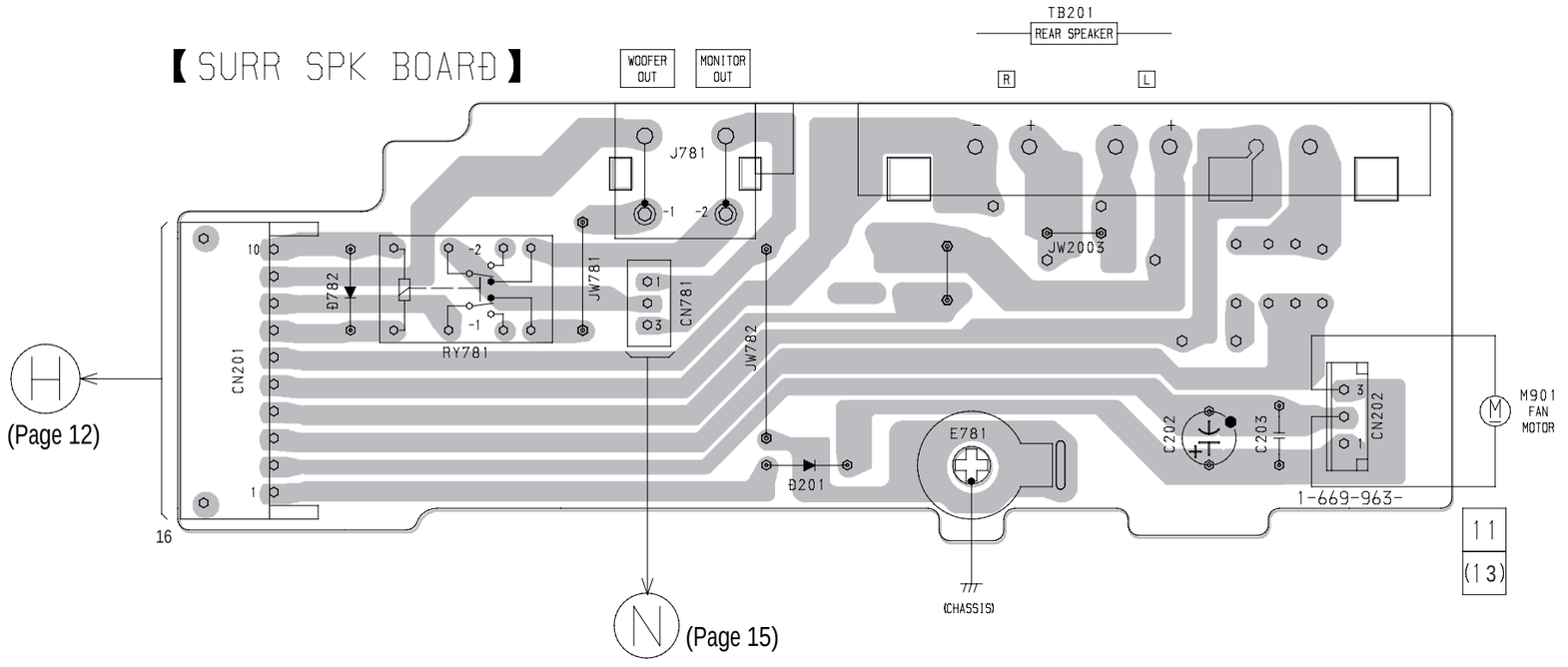
4-8. SCHEMATIC DIAGRAM POWER AMP SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

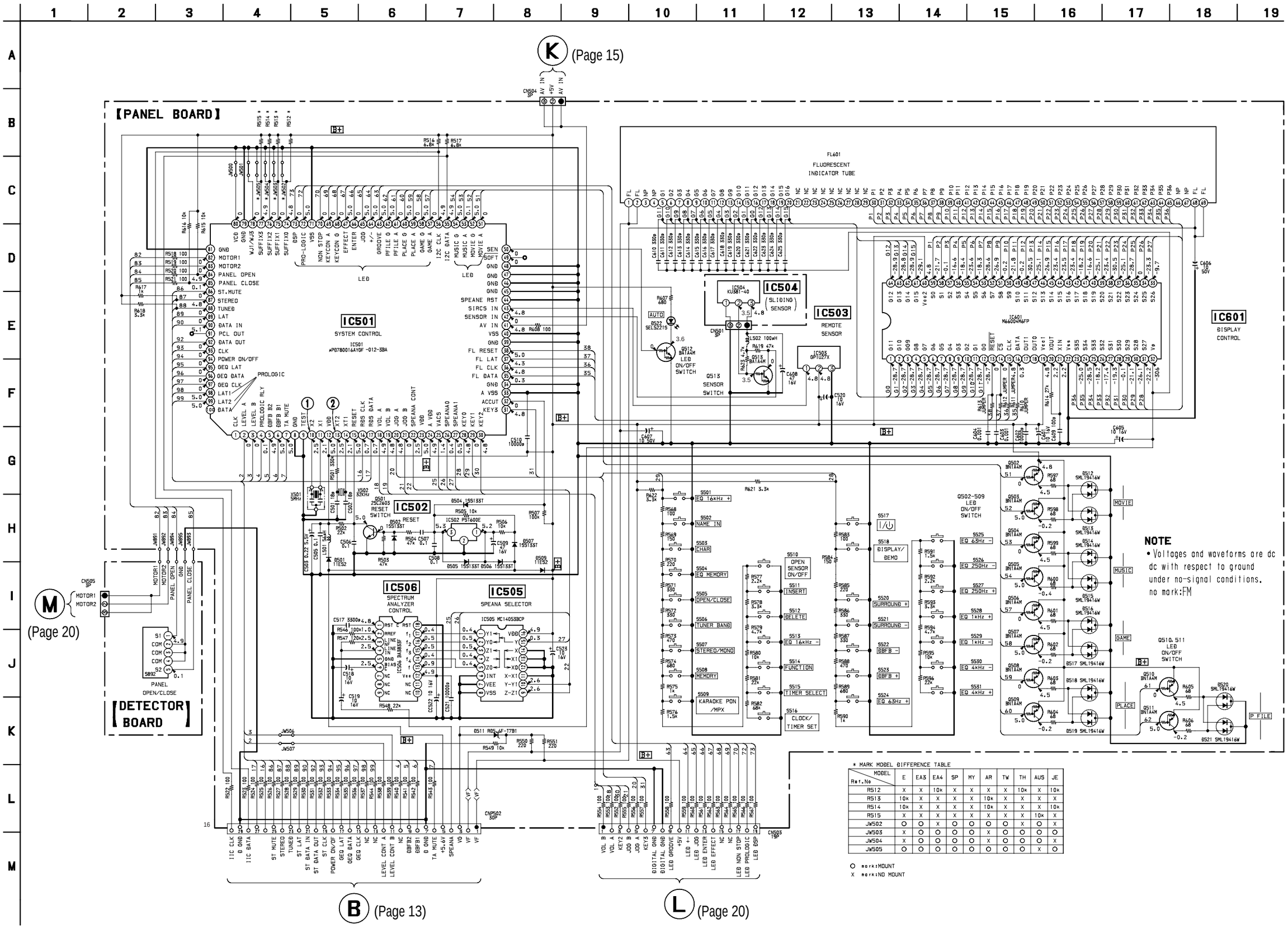
4-9. PRINTED WIRING BOARD POWER AMP SECTION

• Refer to page 9 for Circuit Boards Location.



4-10. SCHEMATIC DIAGRAM DISPLAY SECTION

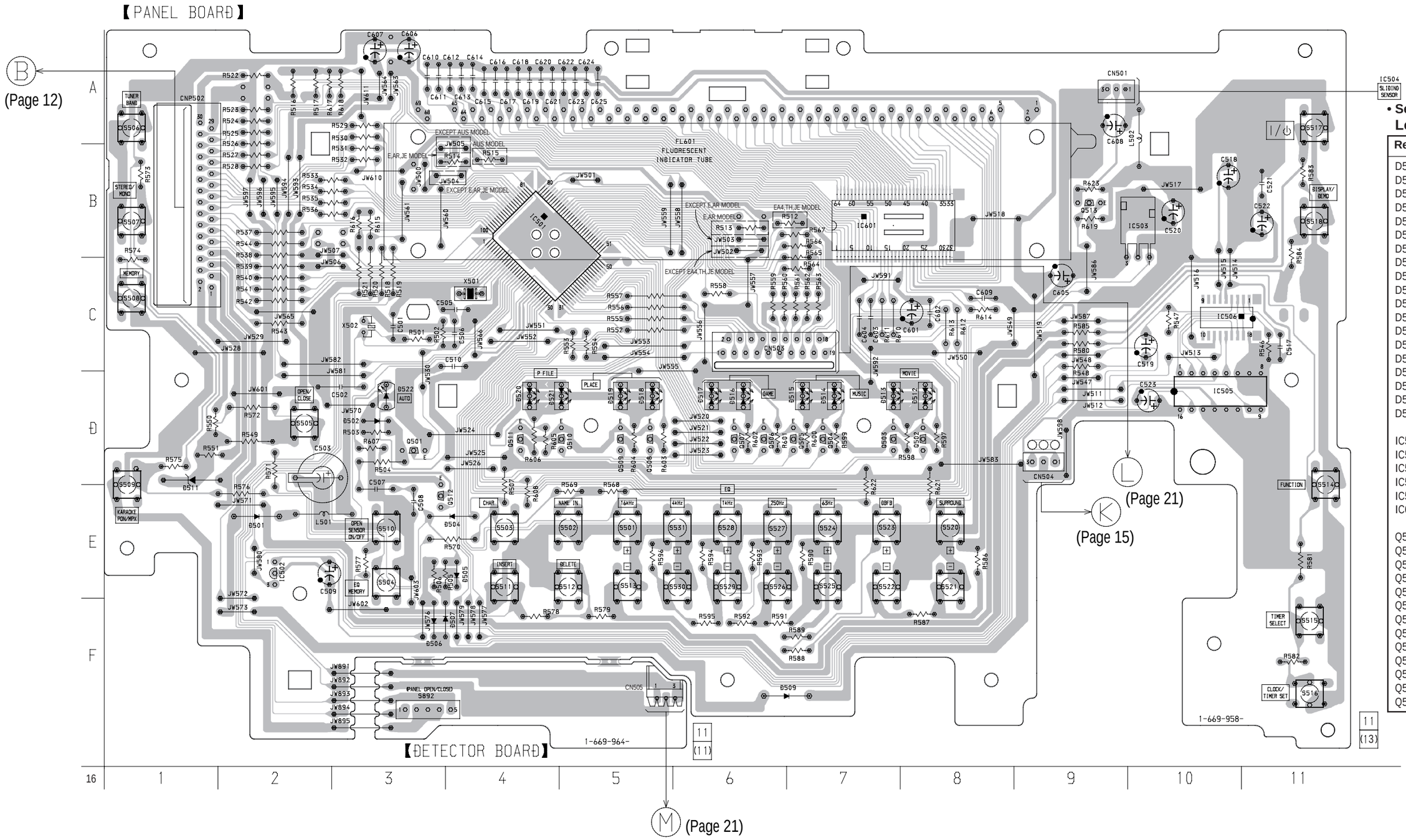
• Refer to page 25 for IC Block Diagrams. • Refer to page 26 for IC Pin Function.



Ref.No \ MODEL	E	EA3	EA4	SP	MY	AR	TW	TH	AUS	JE
R512	X	X	10k	X	X	X	X	10k	X	10k
R513	10k	X	X	X	X	10k	X	X	X	X
R514	10k	X	X	X	X	10k	X	X	X	10k
R515	X	X	X	X	X	X	X	X	10k	X
JW502	O	O	X	O	O	O	O	X	O	X
JW503	X	O	O	O	O	X	O	O	O	O
JW504	X	O	O	O	O	X	O	O	O	X
JW505	O	O	O	O	O	O	O	O	X	O

4-11. PRINTED WIRING BOARD DISPLAY SECTION

• Refer to page 9 for Circuit Boards Location.

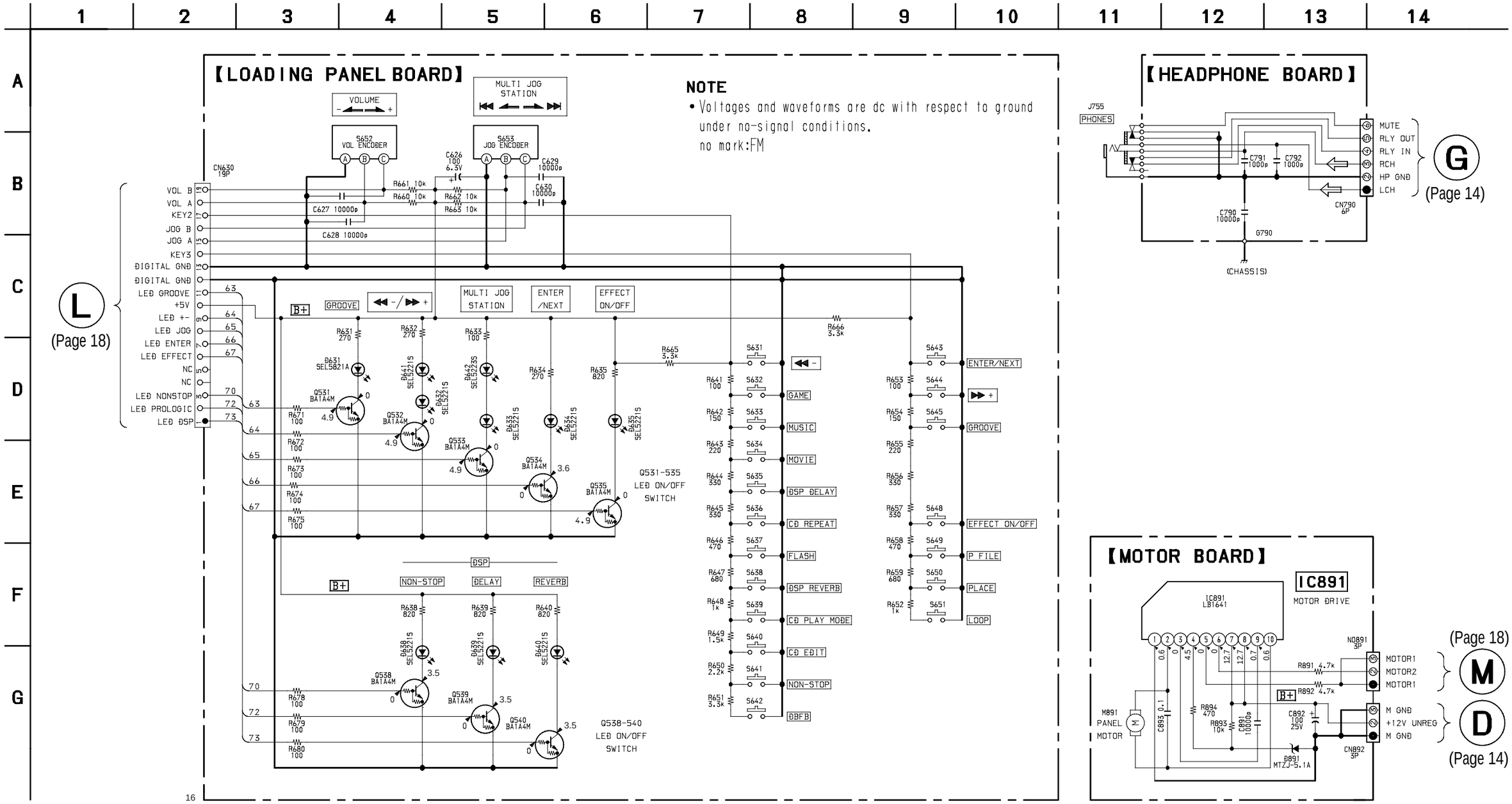


• **Semiconductor Location**

Ref. No.	Location
D501	E-2
D502	D-3
D504	E-4
D505	F-4
D506	F-3
D507	F-3
D509	F-6
D511	D-1
D512	D-8
D513	D-7
D514	D-7
D515	D-7
D516	D-6
D517	D-6
D518	D-5
D519	D-5
D520	D-4
D521	D-5
D522	D-3
IC501	B-4
IC502	E-2
IC503	B-10
IC505	D-10
IC506	C-10
IC601	B-7
Q501	D-3
Q502	D-8
Q503	D-7
Q505	D-7
Q504	D-7
Q506	D-6
Q507	D-6
Q508	D-5
Q509	D-5
Q510	D-5
Q511	D-4
Q512	E-3
Q513	B-9

4-12. SCHEMATIC DIAGRAM SLIDING PANEL SECTION

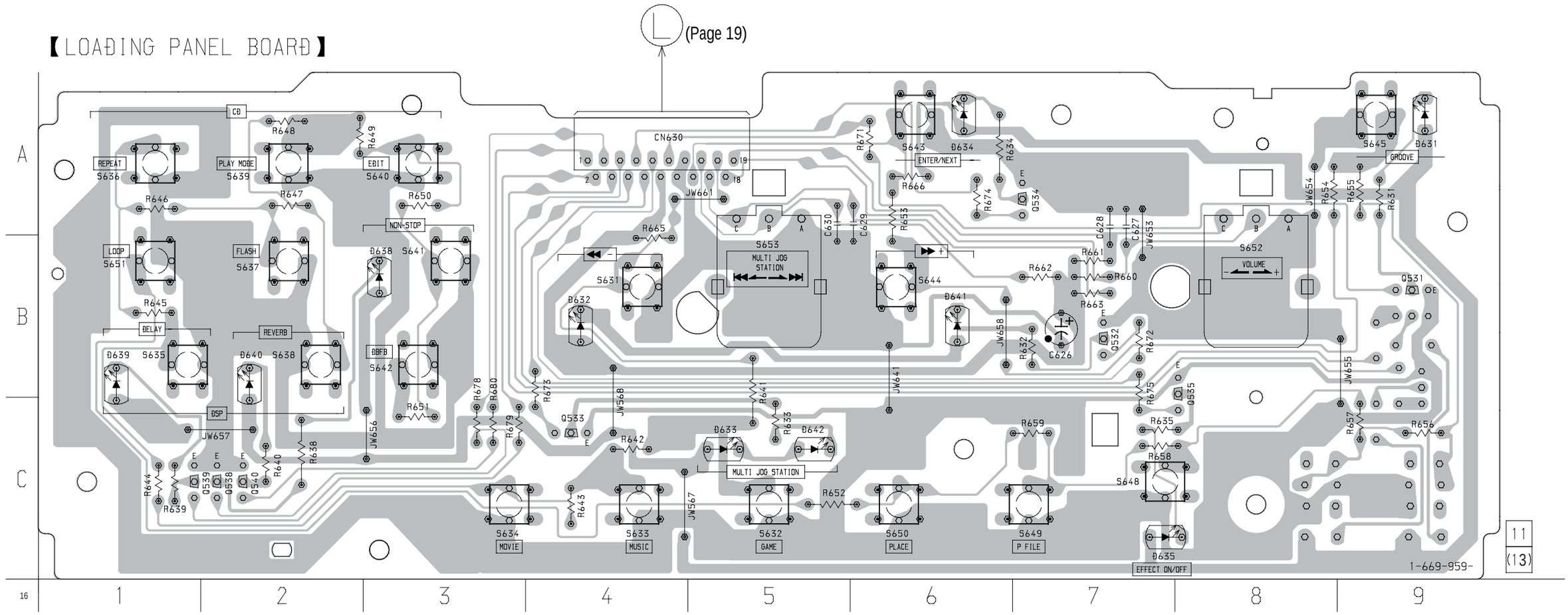
• Refer to page 28 for IC Block Diagrams.



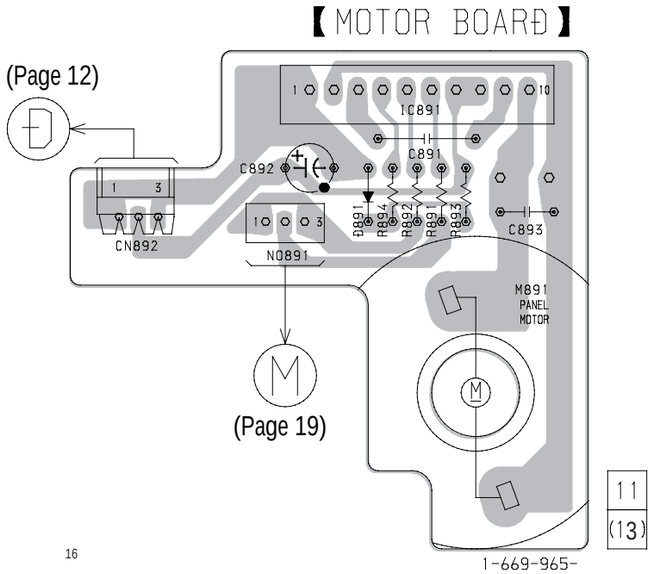
4-13. PRINTED WIRING BOARD SLIDING PANEL SECTION

• Refer to page 9 for Circuit Boards Location.

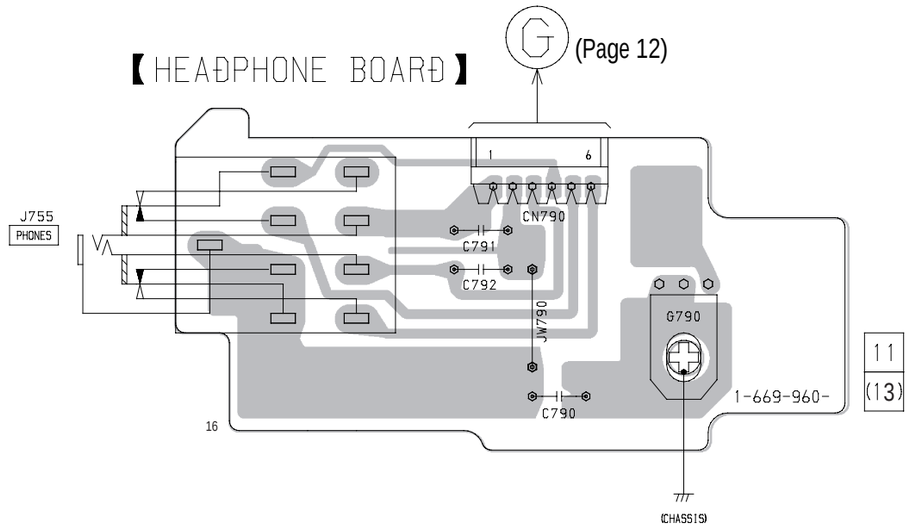
【LOADING PANEL BOARD】



【MOTOR BOARD】



【HEADPHONE BOARD】

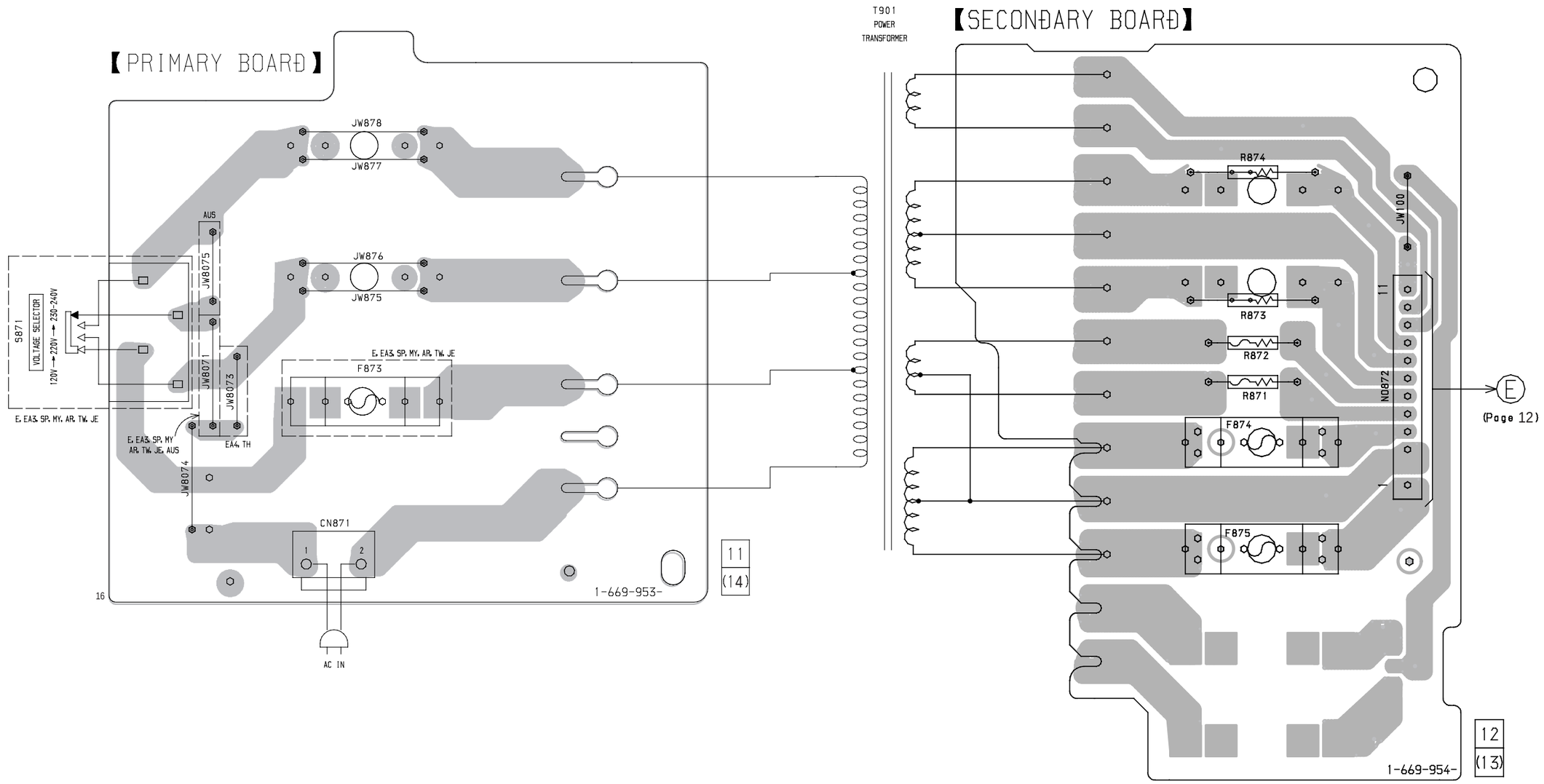


• **Semiconductor Location**

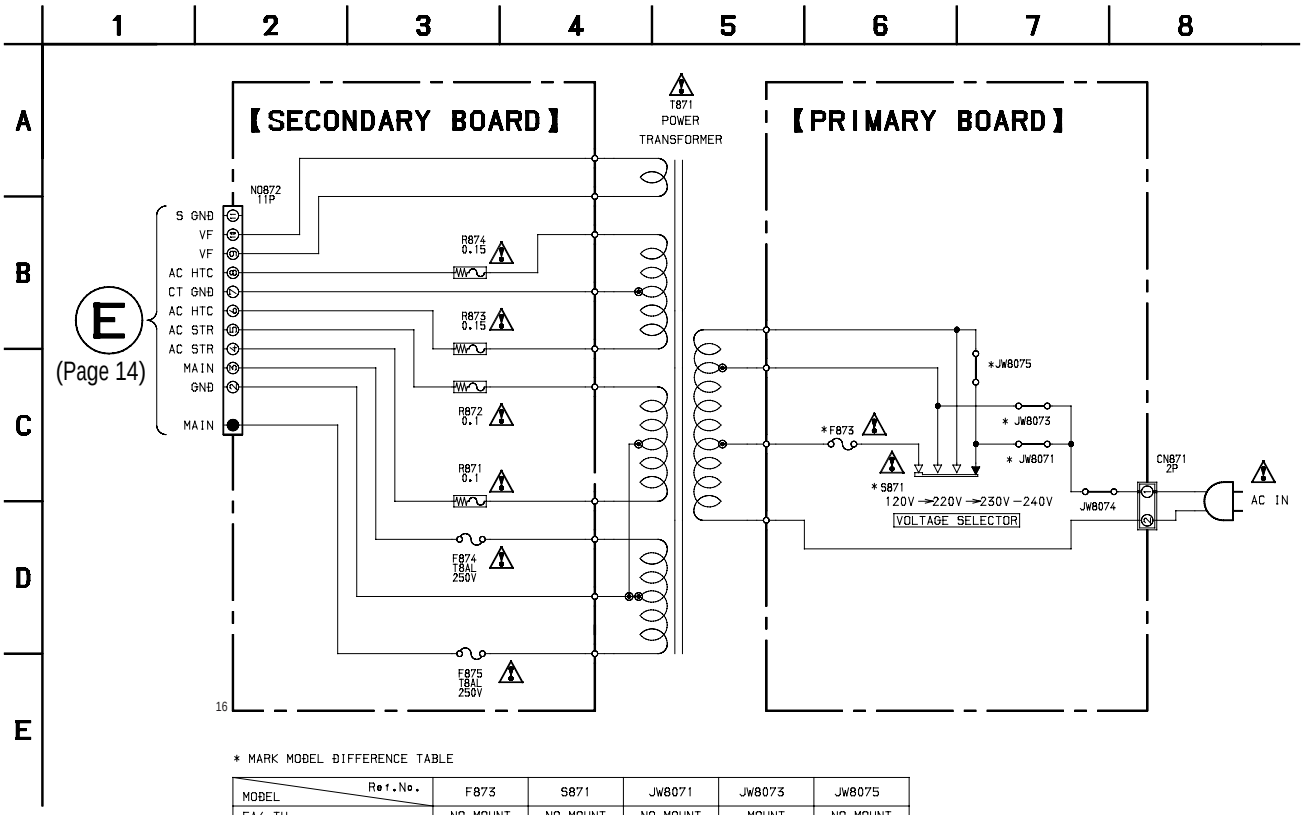
Ref. No.	Location
D631	A-9
D632	B-4
D633	C-5
D634	A-6
D635	C-7
D638	B-3
D639	B-1
D640	B-2
D641	B-6
D642	C-5
Q531	B-9
Q532	B-7
Q533	C-4
Q534	A-7
Q535	B-8
Q538	C-2
Q539	C-1
Q540	C-2

4-14. PRINTED WIRING BOARD TRANS SECTION

• Refer to page 9 for Circuit Boards Location.



4-15. SCHEMATIC DIAGRAM TRANS SECTION



* MARK MODEL DIFFERENCE TABLE

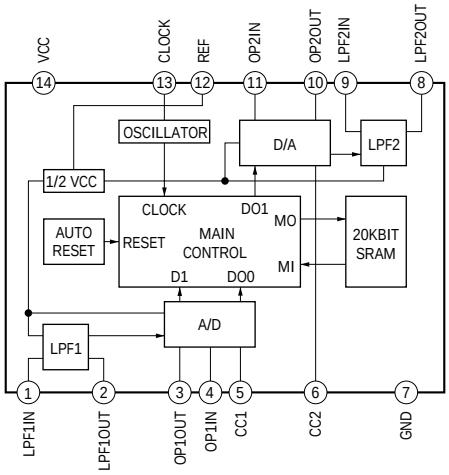
MODEL \ Ref.No.	F873	S871	JW8071	JW8073	JW8075
EA4, TH	NO MOUNT	NO MOUNT	NO MOUNT	MOUNT	NO MOUNT
E, EA3, SP, MY, AR, TW, JE	T6.3AL/250V	MOUNT	MOUNT	NO MOUNT	NO MOUNT
AUS	NO MOUNT	NO MOUNT	MOUNT	NO MOUNT	MOUNT

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

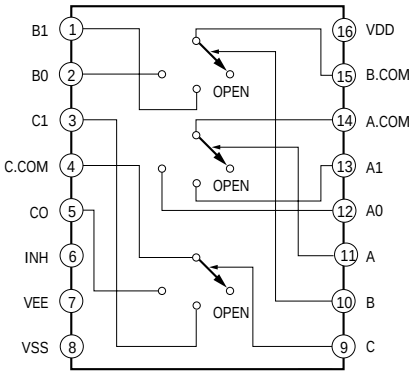
4-16. IC BLOCK DIAGRAMS

• MAIN (1/2) SECTION

IC401 M65850P

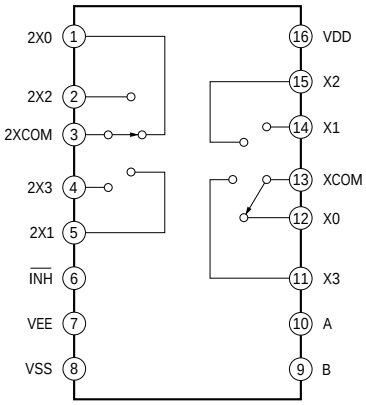


IC402 MC14053BCP

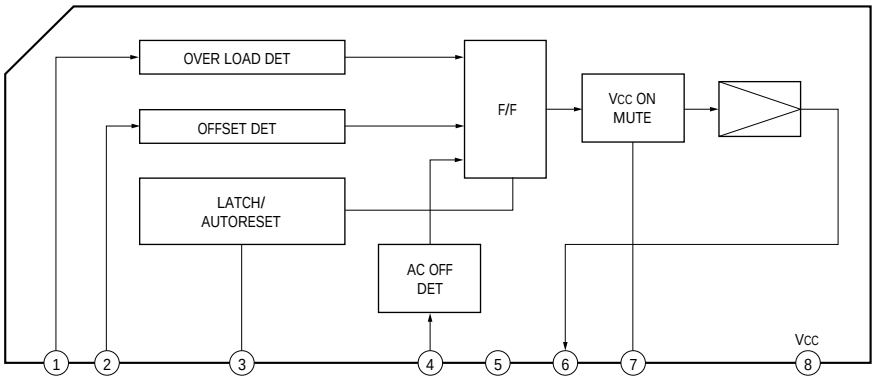


• MAIN (2/2) SECTION

IC112 MC14052BCP

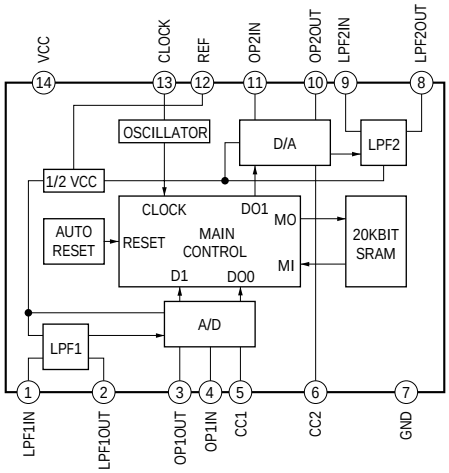


IC851 uPC1237HA



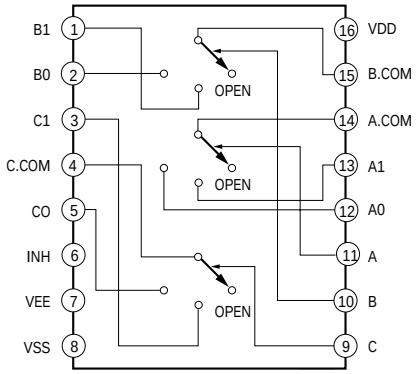
• MIC/ECHO SECTION

IC6002 M65850P

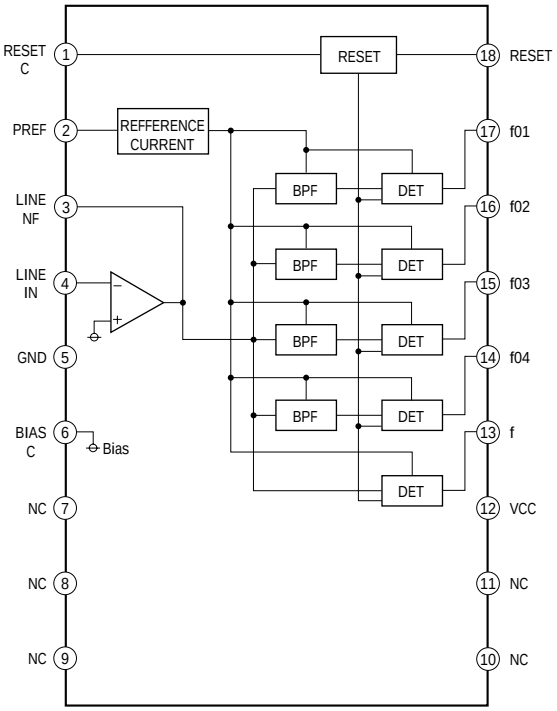


• DISPLAY SECTION

IC505 MC14053BCP

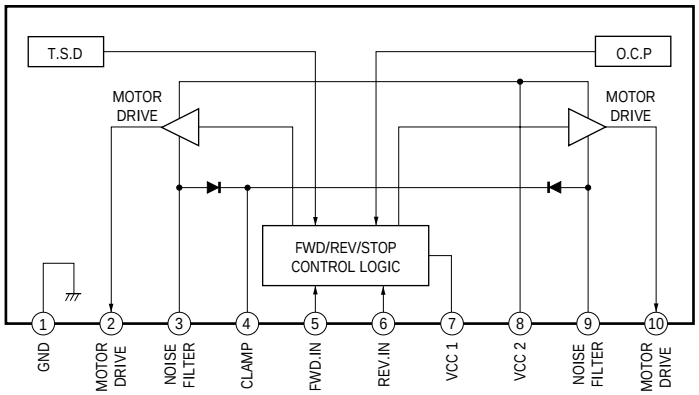


IC506 BA3833F



• SLIDING PANEL SECTION

IC891 LB1641



4-17. IC PIN FUNCTION

• IC501 SYSTEM CONTROL (uPD780016AYGF-012-3BA) PANEL BOARD

Pin No.	Pin Name	I/O	Description
1	CLK	O	Not used
2	LEVEL A	O	Surround level A signal output
3	LEVEL B	O	Surround level B signal output
4	PROLOGIC RLY	O	Not used
5	DBFB B2	O	DBFB level 2 signal output
6	DBFB B1	O	DBFB level 1 signal output
7	TA MUTE	O	Mute signal output
8	GND	–	Ground
9	TEST	–	Test terminal (Connected to ground)
10	X2	O	X'tal (5MHz)
11	X1	I	
12	VDD	–	Power supply (+5V)
13	XT2	O	X'tal (32kHz)
14	XT1	I	
15	RESET	I	Reset signal input
16	RDS CLK	I	RDS clock input
17	RDS DATA	I	RDS data input
18	VOL A	I	Rotary encoder (VOLUME) pulse input
19	VOL B	I	
20	JOG A	I	Rotary encoder (MULTI JOG STATION) pulse input
21	JOG B	I	
22	SPEANA CONT	O	Spectrum analyzer control output
23	VDD	–	Power supply (+5V)
24	A VDD	–	Analog power supply (+5V)
25	VACS	I	Audio input for VACS control
26	SPEANA0	I	Spectrum analyzer data input
27	SPEANA1	I	
28	KEY0	I	Key data input
29	KEY1	I	
30	KEY2	I	
31	KEY3	I	
32	ACCUT	I	Back up signal input
33	A VSS	–	Analog ground
34	GND	–	Ground
35	FL DATA	O	FL data output
36	FL CLK	O	FL clock output
37	FL LAT	O	FL latch output
38	FL RESET	O	FL reset output
39	GND	–	Ground
40	VSS	–	Ground

• Abbreviation
FL : Fluorescent indicator tube

Pin No.	Pin Name	I/O	Description
41	AV IN	I	AV INPUT (VIDEO 2) switch input
42	SENSOR IN	I	Sliding (panel) sensor signal input
43	SIRCS IN	I	Remote sensor signal input
44	SPEANE RST	O	Spectrum analyzer reset output
45	GND	–	Ground
46	GND	–	
47	GND	–	
48	GND	–	
49	SOFT	O	Soft test terminal
50	SEN	O	Auto indicator output
51	MOVIE A	O	LED driver output
52	MOVIE G	O	
53	MUSIC A	O	
54	MUSIC G	O	
55	I2C DATA	I/O	Serial data input/output
56	I2C CLK	I/O	Serial clock input/output
57	GAME A	O	LED driver output
58	GAME G	O	
59	PLACE A	O	
60	PLACE G	O	
61	PFILE A	O	
62	PFILE G	O	
63	GROOVE	O	
64	+/–	O	
65	JOG	O	
66	ENTER	O	
67	EFECT	O	
68	KEYCON G	O	Not used
69	KEYCON A	O	
70	NON STOP	O	LED driver output
71	VSS	–	Ground
72	DELAY	O	LED driver output
73	REVER B	O	
74	SUFFIX0	I	Destination terminal
75	SUFFIX1	I	
76	SUFFIX2	I	
77	SUFFIX3	I	
78	WJ1/WJ3	I	Model select terminal
79	GND	–	Ground
80	VCD	I	VCD select terminal “L”: NON-VCD (Connected to ground)

Pin No.	Pin Name	I/O	Description
81	GND	–	Ground
82	MOTOR1	O	Panel motor contol output
83	MOTOR2	O	
84	PANEL OPEN	O	Panel open switch output
85	PANEL CLOSE	O	Panel close switch output
86	ST.MUTE	O	ST mute signal output
87	STEREO	I	Stereo detection input for tuner
88	TUNED	I	Tuned detection input for tuner
89	LAT	O	Tuner PLL latch output
90	DATA IN	I	Tuner PLL data input
91	PCL OUT	O	Sub clock output
92	DATA OUT	O	Tuner PLL data output
93	CLK	O	Tuner clock output
94	POWER ON/OFF	O	Power on/off control output
95	GEQ LAT	O	GEQ latch output
96	GEQ DATA	O	GEQ data output
97	GEQ CLK	O	GEQ clock output
98	LAT1	O	Not used
99	LAT2	O	
100	DATA	O	

• Abbreviation
GEQ : Graphic Equalizer
PLL : Phase Locked Loop

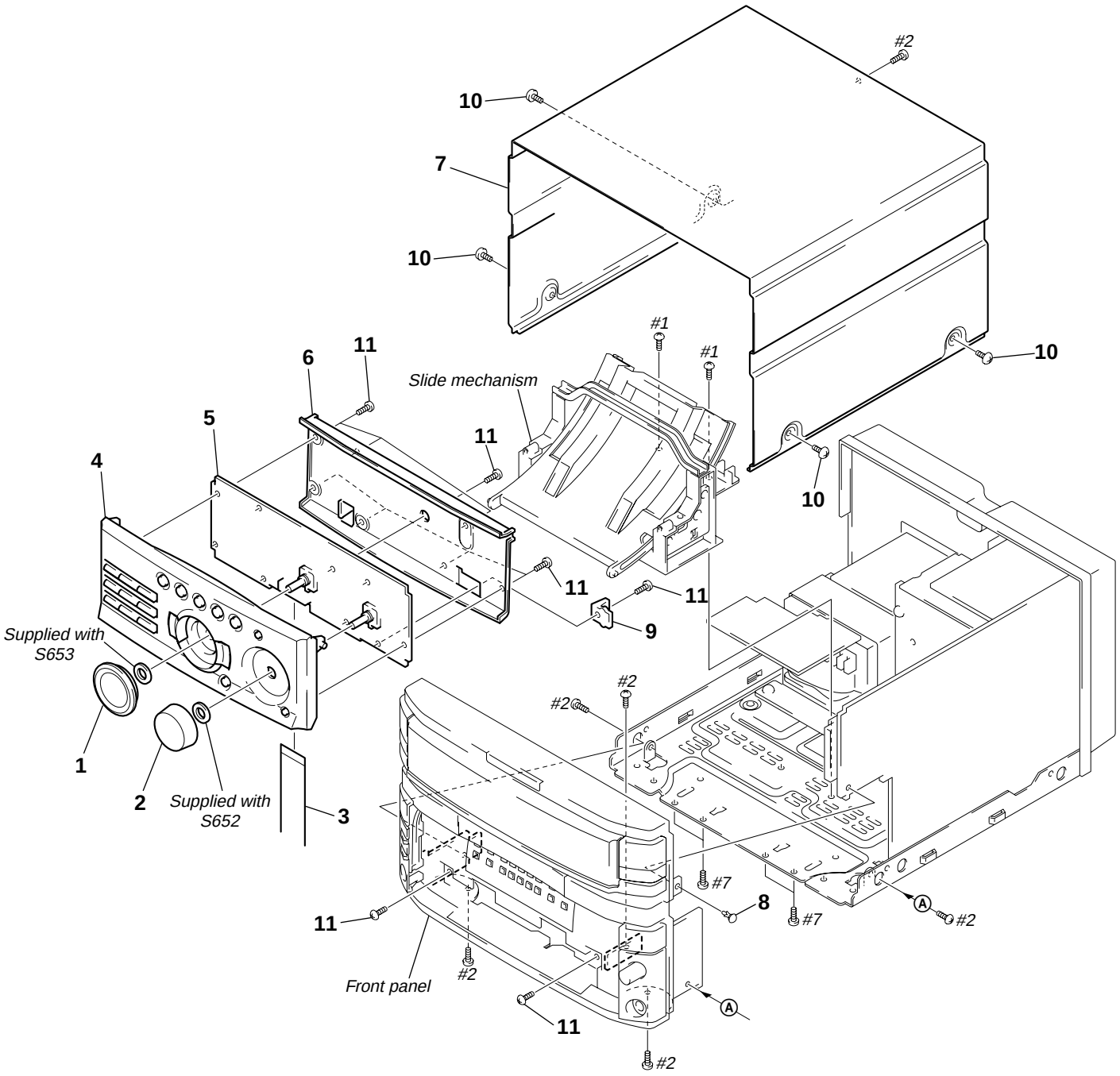
SECTION 5
EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
  EA4 : Israel model
  JE : Tourist model
  TH : Thai model.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

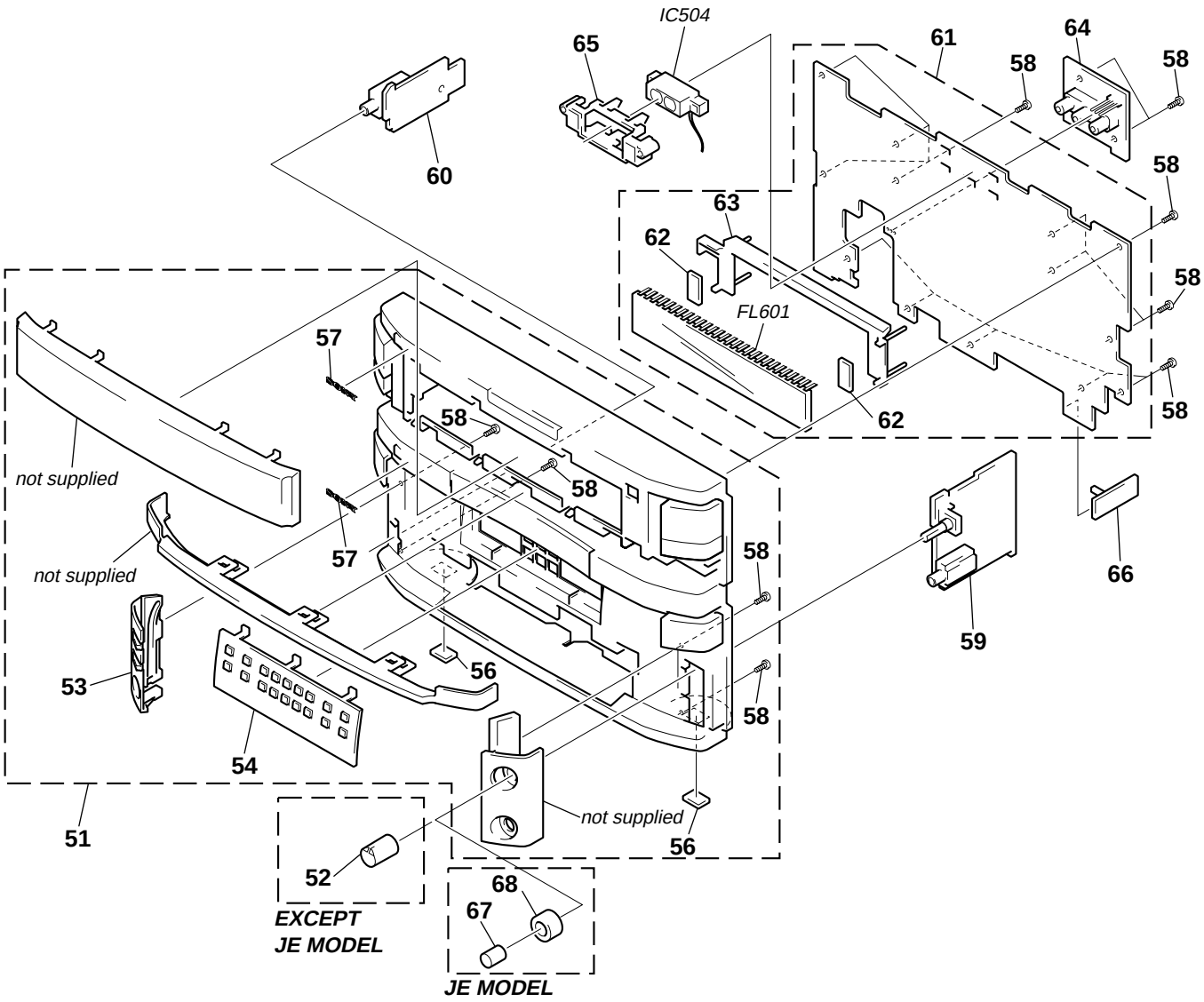
6-1. CASE AND SLIDING PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	4-219-918-01	KNOB (JOG)	
2	X-4951-659-1	KNOB (VOL ASSY)	
3	1-773-125-11	WIRE (FLAT TYPE) (19 CORE)	
4	X-4951-660-1	SLIDING PANEL SUB ASSY	
* 5	1-669-959-11	LOADING PANEL BOARD	

Ref. No.	Part No.	Description	Remark
6	4-900-855-02	COVER	
* 7	4-900-858-01	CASE	
8	4-812-134-00	RIVET (DIA. 3.5), NYLON	
* 9	4-900-852-02	HOLDER LEVEL	
10	3-363-099-01	SCREW (CASE 3 TP2)	
11	4-951-620-01	SCREW (2.6X8), +BVTP	

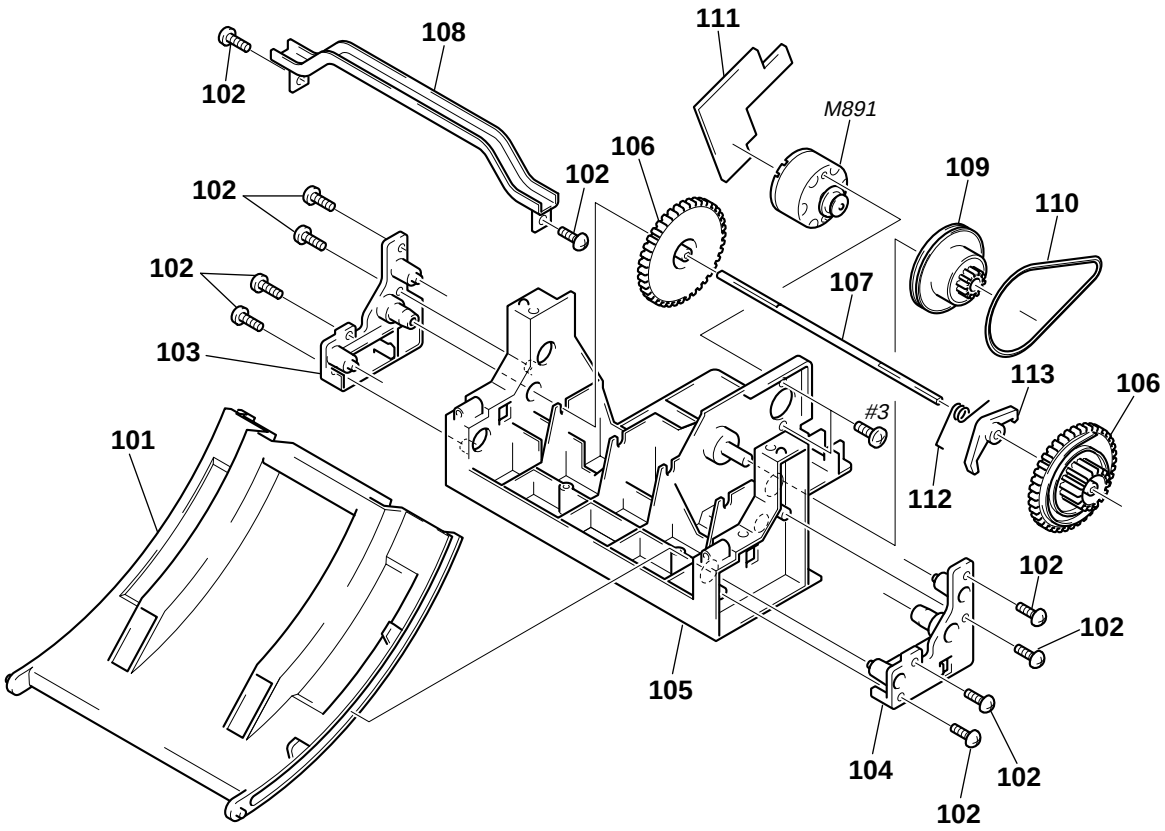
6-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	X-4951-664-1	FRONT PANEL ASSY (EXCEPT JE)	
51	X-4951-776-1	FRONT PANEL ASSY (JE)	
52	4-900-832-11	KNOB (MIC)(EXCEPT JE)	
53	X-4951-665-1	ESCUTCHEON (L) ASSY	
54	X-4949-994-1	ESCUTCHEON (EQ) ASSY	
57	4-962-708-11	EMBLEM (4-A), SONY	
58	4-951-620-01	SCREW (2.6 × 8), +BVTP	
* 59	A-4419-953-A	MIC/ECHO BOARD, COMPLETE (EXCEPT EA4,TH,JE)	
* 59	A-4414-718-A	MIC/ECHO BOARD, COMPLETE (JE)	
* 59	A-4414-778-A	MIC/ECHO BOARD, COMPLETE (EA4,TH)	
* 60	1-669-960-11	HEADPHONE BOARD	
* 61	A-4414-212-A	PANEL BOARD, COMPLETE(EXCEPT EA4,TH,JE)	

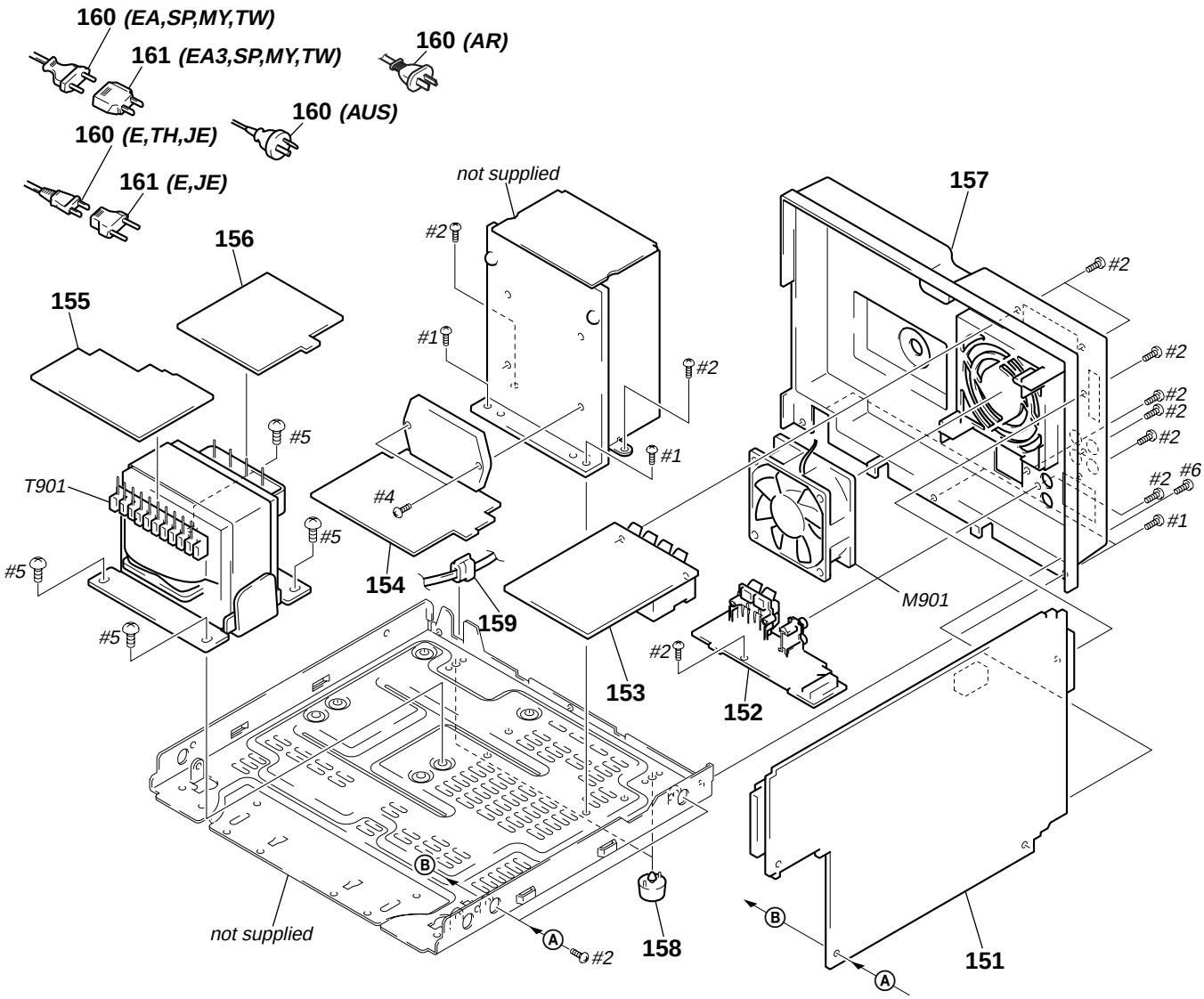
Ref. No.	Part No.	Description	Remark
* 61	A-4414-746-A	PANEL BOARD, COMPLETE (JE)	
* 61	A-4414-793-A	PANEL BOARD, COMPLETE (EA4,TH)	
* 62	4-932-810-11	CUSHION (FL)	
* 63	4-900-849-01	HOLDER (FL)	
* 64	1-669-957-11	FRONT AV BOARD	
* 65	4-210-042-01	BRACKET (SENSOR)	
* 66	1-669-964-11	DETECTOR BOARD	
67	4-900-868-11	KNOB (CENTER) (JE)	
68	4-900-867-11	KNOB (CONTROL) (JE)	
FL601	1-517-775-11	INDICATOR TUBE, FLUORESCENT	
IC504	8-719-070-85	DIODE KU381-40	

6-3. SLIDE MECHANISM SECTION



Ref. No.	Part No.	Description	Remark
101	4-900-844-01	LEVEL SLIDER	
102	4-951-620-01	SCREW (2.6X8), +BVTP	
103	X-4950-394-2	HOLDER (L) ASSY	
104	X-4950-395-2	HOLDER (R) ASSY	
105	4-900-845-01	BRACKET SLIDER	
106	4-900-846-01	GEAR (1)	
107	4-900-862-01	SHAFT (CENTER)	
108	4-900-864-01	BRACKET (TOP)	
109	4-900-847-01	GEAR (2)	
110	3-344-059-01	BELT (L)	
* 111	1-669-965-11	MOTOR BOARD	
112	4-212-966-01	SPRING LEVEL	
113	4-212-965-01	STOPPER LEVEL	
M891	A-4660-926-A	MOTOR (CDM) ASSY	

6-4. CIRCUIT BOARDS AND BACK PANEL SECTION



Ref. No.	Part No.	Description	Remark
151	A-4419-951-A	MAIN BOARD, COMPLETE (EXCEPT EA4,TH,JE)	
151	A-4426-830-A	MAIN BOARD, COMPLETE (EA4,TH)	
151	A-4426-825-A	MAIN BOARD, COMPLETE (JE)	
* 152	1-669-963-11	SURR SPK BOARD	
153	1-233-545-32	ENCAPSULATED COMPONENT (TUNER UNIT)(E,EA4,TH,AUS,AR)	
153	1-233-546-32	ENCAPSULATED COMPONENT (TUNER UNIT) (EA3,MY,SP,TW)	
153	1-693-385-31	TUNER (JE)	
154	A-4419-954-A	POWER AMP BOARD, COMPLETE (EXCEPT EA4,TH,JE)	
154	A-4426-833-A	POWER AMP BOARD, COMPLETE (EA4,TH)	
154	A-4426-828-A	POWER AMP BOARD, COMPLETE (JE)	
* 155	1-669-954-12	SECONDARY BOARD	
* 156	1-669-953-11	PRIMARY BOARD	

Ref. No.	Part No.	Description	Remark
* 157	4-900-848-01	BACK PANEL (EXCEPT EA4,TH)	
* 157	4-900-848-11	BACK PANEL (EA4,TH)	
158	4-970-381-11	FOOT (REAR)	
* 159	3-703-244-00	BUSHING (2104), CORD (EXCEPT TH)	
159	3-703-571-11	BUSHING (S) (4516), CORD (TH)	
⚠160	1-575-653-11	CORD, POWER (TH)	
⚠160	1-696-847-11	CORD, POWER (AUS)	
⚠160	1-777-071-21	CORD, POWER (EA,SP,MY,TW)	
⚠160	1-783-525-11	CORD, POWER (TRACKING)(JE)	
⚠160	1-783-940-11	CORD, POWER (AR)	
⚠161	1-569-007-11	ADAPTOR, CONVERSION 2P (E,JE)	
⚠161	1-569-008-21	ADAPTOR, CONVERSION 2P (EA3,SP,MY,TW)	
M901	1-763-372-11	FAN, DC	
⚠T901	1-433-932-11	TRANSFORMER, POWER	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

SECTION 6
ELECTRICAL PARTS LIST

DETECTOR **FRONT AV** **HEADPHONE** **LOADING PANEL**

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable

- Abbreviation
  EA3 : Saudi Arabia model
  EA4 : Israel model
  SP : Singapore model.
  MY : Malaysia model.
  TW : Taiwan model
  AUS : Australian model.
  AR : Argentine model
  JE : Tourist model
  TH : Thai model

- CAPACITORS:
  uF: µF
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description			Remarks
*	1-669-964-11	DETECTOR BOARD			
		**********			
		< CONNECTOR >			
* CN505	1-568-941-11	PIN, CONNECTOR 3P			
		< SWITCH >			
S892	1-571-300-21	SWITCH, ROTARY (PANEL OPEN/CLOSE)			
**********					
*	1-669-957-11	FRONT AV BOARD			
		**********			
	7-685-872-09	SCREW +BVTT 3 × 8 (S)			
		< CAPACITOR >			
C6301	1-162-282-31	CERAMIC	100PF	10% 50V	
C6302	1-162-282-31	CERAMIC	100PF	10% 50V	
C6303	1-162-306-11	CERAMIC	0.01uF	20% 16V	
C6304	1-164-159-11	CERAMIC	0.1uF	20% 50V	
		< CONNECTOR >			
* CN6301	1-564-520-11	PLUG, CONNECTOR 5P			
* CN6302	1-560-666-00	PIN, CONNECTOR 3P			
		< DIODE >			
D6301	8-719-911-19	DIODE 1SS119-25			
D6302	8-719-911-19	DIODE 1SS119-25			
D6303	8-719-911-19	DIODE 1SS119-25			
		< JACK >			
J6301	1-784-901-11	JACK, PIN 3P (AV INPUT (VIDEO2))			
		< COIL >			
L6301	1-412-473-21	INDUCTOR OuH			
		< TRANSISTOR >			
Q6301	8-729-900-36	TRANSISTOR DTC124ES			
		< RESISTOR >			
R6301	1-249-417-11	CARBON	1K	5% 1/4W F	
R6302	1-249-417-11	CARBON	1K	5% 1/4W F	
R6303	1-249-441-11	CARBON	100K	5% 1/4W	
R6304	1-249-441-11	CARBON	100K	5% 1/4W	
R6305	1-249-425-11	CARBON	4.7K	5% 1/4W F	
R6306	1-249-425-11	CARBON	4.7K	5% 1/4W F	
R6307	1-249-425-11	CARBON	4.7K	5% 1/4W F	
R6308	1-249-429-11	CARBON	10K	5% 1/4W	
**********					
*	1-669-960-11	HEADPHONE BOARD			
		**********			
		< CAPACITOR >			
C790	1-162-306-11	CERAMIC	0.01uF	20% 16V	
C791	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C792	1-162-294-31	CERAMIC	0.001uF	10% 50V	
		< CONNECTOR >			
* CN790	1-568-944-11	PIN, CONNECTOR 6P			
		< EARTH >			
* G790	1-537-738-21	TERMINAL, EARTH			
		< JACK >			
J755	1-774-728-41	JACK (PHONES)			
**********					
*	1-669-959-11	LOADING PANEL BOARD			
		**********			
		< CAPACITOR >			
C626	1-124-584-00	ELECT	100uF	20% 10V	
C627	1-162-306-11	CERAMIC	0.01uF	20% 16V	
C628	1-162-306-11	CERAMIC	0.01uF	20% 16V	
C629	1-162-306-11	CERAMIC	0.01uF	20% 16V	
C630	1-162-306-11	CERAMIC	0.01uF	20% 16V	
		< CONNECTOR >			
CN630	1-569-308-11	SOCKET, CONNECTOR (L TYRE) 19P			
		< DIODE >			
D631	8-719-046-39	DIODE SEL5821A-TH15 (GROOVE)			
D632	8-719-046-44	DIODE SEL5221S (◀◀ –)			
D633	8-719-058-04	DIODE SEL5223S-TP15 (MULTI JOG STATION)			
D634	8-719-046-44	DIODE SEL5221S (ENTER/NEXT)			
D635	8-719-046-44	DIODE SEL5221S (EFFECT ON/OFF)			
D638	8-719-046-44	DIODE SEL5221S (NON-STOP)			
D639	8-719-046-44	DIODE SEL5221S (DSP DELAY)			
D640	8-719-046-44	DIODE SEL5221S (DSP REVERB)			
D641	8-719-046-44	DIODE SEL5221S (▶▶ +)			
D642	8-719-058-04	DIODE SEL5223S-TP15 (MULTI JOG STATION)			

LOADING PANEL MAIN

Ref. No.	Part No.	Description				Remarks
		< TRANSISTOR >				
Q531	8-729-900-80	TRANSISTOR	DTC114ES			
Q532	8-729-900-80	TRANSISTOR	DTC114ES			
Q533	8-729-900-80	TRANSISTOR	DTC114ES			
Q534	8-729-900-80	TRANSISTOR	DTC114ES			
Q535	8-729-900-80	TRANSISTOR	DTC114ES			
Q538	8-729-900-80	TRANSISTOR	DTC114ES			
Q539	8-729-900-80	TRANSISTOR	DTC114ES			
Q540	8-729-900-80	TRANSISTOR	DTC114ES			
		< RESISTOR >				
R631	1-249-410-11	CARBON	270	5%	1/4W	F
R632	1-249-407-11	CARBON	150	5%	1/4W	F
R633	1-249-403-11	CARBON	68	5%	1/4W	
R634	1-249-407-11	CARBON	150	5%	1/4W	F
R635	1-249-413-11	CARBON	470	5%	1/4W	F
R638	1-249-413-11	CARBON	470	5%	1/4W	F
R639	1-249-413-11	CARBON	470	5%	1/4W	F
R640	1-249-413-11	CARBON	470	5%	1/4W	F
R641	1-247-807-31	CARBON	100	5%	1/4W	
R642	1-249-407-11	CARBON	150	5%	1/4W	F
R643	1-249-409-11	CARBON	220	5%	1/4W	F
R644	1-249-411-11	CARBON	330	5%	1/4W	
R645	1-249-411-11	CARBON	330	5%	1/4W	
R646	1-249-413-11	CARBON	470	5%	1/4W	F
R647	1-249-415-11	CARBON	680	5%	1/4W	F
R648	1-249-417-11	CARBON	1K	5%	1/4W	F
R649	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R650	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R651	1-247-843-11	CARBON	3.3K	5%	1/4W	
R652	1-249-417-11	CARBON	1K	5%	1/4W	F
R653	1-247-807-31	CARBON	100	5%	1/4W	
R654	1-249-407-11	CARBON	150	5%	1/4W	F
R655	1-249-409-11	CARBON	220	5%	1/4W	F
R656	1-249-411-11	CARBON	330	5%	1/4W	
R657	1-249-411-11	CARBON	330	5%	1/4W	
R658	1-249-413-11	CARBON	470	5%	1/4W	F
R659	1-249-415-11	CARBON	680	5%	1/4W	F
R660	1-249-429-11	CARBON	10K	5%	1/4W	
R661	1-249-429-11	CARBON	10K	5%	1/4W	
R662	1-249-429-11	CARBON	10K	5%	1/4W	
R663	1-249-429-11	CARBON	10K	5%	1/4W	
R665	1-247-843-11	CARBON	3.3K	5%	1/4W	
R666	1-247-843-11	CARBON	3.3K	5%	1/4W	
R671	1-247-807-31	CARBON	100	5%	1/4W	
R672	1-247-807-31	CARBON	100	5%	1/4W	
R673	1-247-807-31	CARBON	100	5%	1/4W	
R674	1-247-807-31	CARBON	100	5%	1/4W	
R675	1-247-807-31	CARBON	100	5%	1/4W	
R678	1-247-807-31	CARBON	100	5%	1/4W	
R679	1-247-807-31	CARBON	100	5%	1/4W	
R680	1-247-807-31	CARBON	100	5%	1/4W	
		< SWITCH >				
S631	1-762-378-11	SWITCH, TACTILE (◀◀ –)				
S632	1-762-378-11	SWITCH, TACTILE (GAME)				
S633	1-762-378-11	SWITCH, TACTILE (MUSIC)				
S634	1-762-378-11	SWITCH, TACTILE (MOVIE)				
S635	1-762-378-11	SWITCH, TACTILE (DSP DELAY)				
S636	1-762-378-11	SWITCH, TACTILE (CD REPEAT)				
S637	1-762-378-11	SWITCH, TACTILE (FLASH)				
S638	1-762-378-11	SWITCH, TACTILE (DSP REVERB)				
S639	1-762-378-11	SWITCH, TACTILE (CD PLAY MODE)				
S640	1-762-378-11	SWITCH, TACTILE (CD EDIT)				
S641	1-762-378-11	SWITCH, TACTILE (NON-STOP)				
S642	1-762-378-11	SWITCH, TACTILE (DBFB)				
S643	1-762-378-11	SWITCH, TACTILE (ENTER/NEXT)				
S644	1-762-378-11	SWITCH, TACTILE (▶▶ +)				
S645	1-762-378-11	SWITCH, TACTILE (GROOVE)				
S648	1-762-378-11	SWITCH, TACTILE (EFFECT ON/OFF)				
S649	1-762-378-11	SWITCH, TACTILE (P FILE)				
S650	1-762-378-11	SWITCH, TACTILE (PLACE)				
S651	1-762-378-11	SWITCH, TACTILE (LOOP)				
S652	1-473-392-11	ENCODER, ROTARY (VOLUME)				
S653	1-467-968-11	ENCODER, ROTARY (MULTI JOG STAION)				
**********						
*	A-4419-951-A	MAIN BOARD, COMPLETE (EXCEPT EA4,TH,JE)				
		**********				
*	A-4426-825-A	MAIN BOARD, COMPLETE (JE)				
		**********				
*	A-4426-830-A	MAIN BOARD, COMPLETE (EA4,TH)				
		**********				
		< CAPACITOR >				
C103	1-126-963-11	ELECT	4.7uF	20%	50V	
C105	1-164-159-11	CERAMIC	0.1uF		50V	
C108	1-126-960-11	ELECT	1uF	20%	50V	
C111	1-136-171-00	FILM	0.33uF	5%	50V	
C112	1-136-161-00	FILM	0.047uF	5%	50V	
C113	1-164-159-11	CERAMIC	0.1uF		50V	
C114	1-130-480-00	MYLAR	0.0056uF	5%	50V	
C115	1-136-159-00	FILM	0.033uF	5%	50V	
C116	1-162-301-11	CERAMIC	0.0015uF	20%	16V	
C117	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C118	1-162-290-31	CERAMIC	470PF	10%	50V	
C119	1-162-600-11	CERAMIC	0.0047uF	30%	16V	
C121	1-126-964-11	ELECT	10uF	20%	50V	
C122	1-162-291-31	CERAMIC	560PF	10%	50V	
C123	1-136-165-00	FILM	0.1uF	5%	50V	
C124	1-136-165-00	FILM	0.1uF	5%	50V	
C125	1-164-159-11	CERAMIC	0.1uF		50V	
C126	1-126-964-11	ELECT	10uF	20%	50V	
C127	1-104-665-11	ELECT	100uF	20%	10V	
C128	1-164-159-11	CERAMIC	0.1uF		50V	
C129	1-126-964-11	ELECT	10uF	20%	50V	
C131	1-126-961-11	ELECT	2.2uF	20%	50V	
C134	1-104-664-11	ELECT	47uF	20%	25V	
C135	1-126-959-11	ELECT	0.47uF	20%	50V	
C153	1-126-963-11	ELECT	4.7uF	20%	50V	
C161	1-136-171-00	FILM	0.33uF	5%	50V	
C162	1-136-161-00	FILM	0.047uF	5%	50V	
C163	1-164-159-11	CERAMIC	0.1uF		50V	
C164	1-130-480-00	MYLAR	0.0056uF	5%	50V	
C165	1-136-159-00	FILM	0.033uF	5%	50V	
C166	1-162-301-11	CERAMIC	0.0015uF	20%	16V	
C167	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C168	1-162-290-31	CERAMIC	470PF	10%	50V	
C169	1-162-600-11	CERAMIC	0.0047uF	30%	16V	
C171	1-126-964-11	ELECT	10uF	20%	50V	

Ref. No.	Part No.	Description			Remarks
C172	1-162-291-31	CERAMIC	560PF	10%	50V
C173	1-136-165-00	FILM	0.1uF	5%	50V
C174	1-136-165-00	FILM	0.1uF	5%	50V
C175	1-136-495-11	FILM	0.068uF	5%	50V
C176	1-162-306-11	CERAMIC	0.01uF	20%	16V
C177	1-104-665-11	ELECT	100uF	20%	10V
C178	1-164-159-11	CERAMIC	0.1uF		50V
C181	1-126-961-11	ELECT	2.2uF	20%	50V
C183	1-126-960-11	ELECT	1uF	20%	50V
C184	1-162-303-11	CERAMIC	0.0033uF	30%	16V
C186	1-162-292-31	CERAMIC	680PF	10%	50V
C187	1-126-961-11	ELECT	2.2uF	20%	50V
C188	1-126-960-11	ELECT	1uF	20%	50V
C401	1-126-964-11	ELECT	10uF	20%	50V
C402	1-162-306-11	CERAMIC	0.01uF	20%	16V
C403	1-162-294-31	CERAMIC	0.001uF	10%	50V
C404	1-136-495-11	FILM	0.068uF	5%	50V
C405	1-126-957-11	ELECT	0.22uF	20%	50V
C406	1-126-957-11	ELECT	0.22uF	20%	50V
C407	1-104-664-11	ELECT	47uF	20%	25V
C408	1-164-159-11	CERAMIC	0.1uF		50V
C409	1-104-664-11	ELECT	47uF	20%	25V
C410	1-136-495-11	FILM	0.068uF	5%	50V
C411	1-162-305-11	CERAMIC	0.0068uF	20%	16V
C412	1-162-294-31	CERAMIC	0.001uF	10%	50V
C413	1-126-964-11	ELECT	10uF	20%	50V
C414	1-126-964-11	ELECT	10uF	20%	50V
C415	1-104-664-11	ELECT	47uF	20%	25V
C416	1-104-664-11	ELECT	47uF	20%	25V
C417	1-126-964-11	ELECT	10uF	20%	50V
C418	1-126-964-11	ELECT	10uF	20%	50V
C731	1-104-664-11	ELECT	47uF	20%	25V
C732	1-126-964-11	ELECT	10uF	20%	50V
C801	1-136-165-00	FILM	0.1uF	5%	50V
C802	1-136-165-00	FILM	0.1uF	5%	50V
C803	1-128-493-11	ELECT	4700uF	20%	71V
C804	1-128-493-11	ELECT	4700uF	20%	71V
C805	1-126-948-11	ELECT	100uF	20%	35V
C806	1-126-964-11	ELECT	10uF	20%	50V
C807	1-136-165-00	FILM	0.1uF	5%	50V
C808	1-136-165-00	FILM	0.1uF	5%	50V
C809	1-126-943-11	ELECT	2200uF	20%	25V
C810	1-126-943-11	ELECT	2200uF	20%	25V
C815	1-126-940-11	ELECT	330uF	20%	25V
C816	1-126-951-11	ELECT	470uF	20%	35V
C818	1-126-959-11	ELECT	0.47uF	20%	50V
C819	1-104-664-11	ELECT	47uF	20%	25V
C820	1-126-959-11	ELECT	0.47uF	20%	50V
C821	1-104-664-11	ELECT	47uF	20%	25V
C822	1-126-940-11	ELECT	330uF	20%	25V
C823	1-126-960-11	ELECT	1uF	20%	50V
C824	1-104-665-11	ELECT	100uF	20%	10V
C825	1-126-959-11	ELECT	0.47uF	20%	50V
C826	1-104-664-11	ELECT	47uF	20%	25V
C851	1-126-964-11	ELECT	10uF	20%	50V
C852	1-104-665-11	ELECT	100uF	20%	10V
C853	1-164-159-11	CERAMIC	0.1uF		50V
C854	1-126-961-11	ELECT	2.2uF	20%	50V
C855	1-126-934-11	ELECT	220uF	20%	10V
C856	1-104-665-11	ELECT	100uF	20%	10V

Ref. No.	Part No.	Description	Remarks
		< CONNECTOR >	
* CN101	1-764-017-21	HOUSING,CONNECTOR (PC BOARD) 17P	
CN103	1-774-289-11	PIN, CONNECTOR (PC BOARD) 15P	
* CN131	1-564-507-11	PLUG, CONNECTOR 4P	
CN701	1-778-311-11	SOCKET, CONNECTOR (PC BOARD) 30P	
* CN731	1-569-496-11	SOCKET, CONNECTOR 10P	
CN801	1-691-773-11	PLUG (MICRO CONNECTOR) 11P	
		< DIODE >	
D101	8-719-911-19	DIODE 1SS119-25	
D102	8-719-911-19	DIODE 1SS119-25	
D131	8-719-911-19	DIODE 1SS119-25	
D401	8-719-911-19	DIODE 1SS119-25	
D402	8-719-911-19	DIODE 1SS119-25	
D403	8-719-911-19	DIODE 1SS119-25	
D751	8-719-911-19	DIODE 1SS119-25	
D752	8-719-911-19	DIODE 1SS119-25	
D761	8-719-911-19	DIODE 1SS119-25	
D781	8-719-024-99	DIODE 11ES2-NTA2B	
D801	8-719-302-38	DIODE RBV-602-01	
D802	8-719-911-19	DIODE 1SS119-25	
D803	8-719-911-19	DIODE 1SS119-25	
D804	8-719-934-22	DIODE HZS30-2L	
D805	8-719-024-99	DIODE 11ES2-NTA2B	
D806	8-719-024-99	DIODE 11ES2-NTA2B	
D807	8-719-024-99	DIODE 11ES2-NTA2B	
D808	8-719-024-99	DIODE 11ES2-NTA2B	
D810	8-719-024-99	DIODE 11ES2-NTA2B	
D811	8-719-024-99	DIODE 11ES2-NTA2B	
D812	8-719-911-19	DIODE 1SS119-25	
D813	8-719-024-99	DIODE 11ES2-NTA2B	
D821	8-719-024-99	DIODE 11ES2-NTA2B	
D851	8-719-911-19	DIODE 1SS119-25	
D852	8-719-911-19	DIODE 1SS119-25	
D853	8-719-911-19	DIODE 1SS119-25	
		< EARTH >	
* E801	1-537-738-21	TERMINAL, EARTH	
		< IC >	
IC111	8-759-495-24	IC M62442FP-TP	
IC112	8-759-000-48	IC MC14052BCP	
IC113	8-759-634-51	IC M5218AP	
IC401	8-759-450-96	IC M65850P	
IC402	8-759-140-53	IC UPD4053BC	
IC801	8-759-604-86	IC M5F7807L	
IC802	8-759-604-90	IC M5F7907L	
IC803	8-759-231-53	IC TA7805S	
IC804	8-759-604-32	IC M5F7810L	
IC851	8-759-111-68	IC UPC1237HA	
		< JACK >	
J101	1-770-613-11	JACK, PIN 4P (MD/VIDEO1 IN,OUT)	
		< COIL >	
L131	1-410-521-11	INDUCTOR 100uH	
L401	1-410-521-11	INDUCTOR 100uH	

MAIN

Ref. No.	Part No.	Description			Remarks
		< TRANSISTOR >			
Q121	8-729-422-57	TRANSISTOR	UN4111		
Q132	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q182	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q183	8-729-141-30	TRANSISTOR	2SC3623A-LK		
Q401	8-729-119-77	TRANSISTOR	2SA1175-FEK		
Q731	8-729-140-04	TRANSISTOR	2SB1116A-L		
Q732	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q801	8-729-141-83	TRANSISTOR	2SB1094-LK		
Q851	8-729-900-63	TRANSISTOR	DTA124ES		
Q852	8-729-900-36	TRANSISTOR	DTC124ES		
Q853	8-729-900-36	TRANSISTOR	DTC124ES		
Q854	7-729-900-63	TRANSISTOR	DTA124ES		
Q855	8-729-195-82	TRANSISTOR	2SC2958-TL		
		< RESISTOR >			
R103	1-249-417-11	CARBON	1K	5% 1/4W F	
R104	1-249-441-11	CARBON	100K	5% 1/4W	
R105	1-249-441-11	CARBON	100K	5% 1/4W	
R106	1-249-417-11	CARBON	1K	5% 1/4W F	
R108	1-249-417-11	CARBON	1K	5% 1/4W F	
R109	1-249-441-11	CARBON	100K	5% 1/4W	
R113	1-247-897-11	CARBON	560K	5% 1/4W	
R114	1-247-897-11	CARBON	560K	5% 1/4W	
R115	1-249-433-11	CARBON	22K	5% 1/4W	
R116	1-249-422-11	CARBON	2.7K	5% 1/4W F	
R117	1-247-895-00	CARBON	470K	5% 1/4W	
R118	1-249-429-11	CARBON	10K	5% 1/4W	
R119	1-249-441-11	CARBON	100K	5% 1/4W	
R120	1-249-441-11	CARBON	100K	5% 1/4W	
R121	1-249-417-11	CARBON	1K	5% 1/4W F	
R122	1-249-417-11	CARBON	1K	5% 1/4W F	
R123	1-249-421-11	CARBON	2.2K	5% 1/4W F	
R132	1-249-421-11	CARBON	2.2K	5% 1/4W F	
R134	1-249-435-11	CARBON	33K	5% 1/4W	
R135	1-249-439-11	CARBON	68K	5% 1/4W	
R136	1-247-883-00	CARBON	150K	5% 1/4W	
R138	1-249-437-11	CARBON	47K	5% 1/4W	
R139	1-247-903-00	CARBON	1M	5% 1/4W	
R140	1-249-441-11	CARBON	100K	5% 1/4W	
R141	1-249-418-11	CARBON	1.2K	5% 1/4W F	
R142	1-249-437-11	CARBON	47K	5% 1/4W	
R145	1-247-887-00	CARBON	220K	5% 1/4W	
R153	1-249-417-11	CARBON	1K	5% 1/4W F	
R154	1-249-441-11	CARBON	100K	5% 1/4W	
R155	1-249-441-11	CARBON	100K	5% 1/4W	
R156	1-249-417-11	CARBON	1K	5% 1/4W F	
R158	1-249-417-11	CARBON	1K	5% 1/4W F	
R159	1-249-441-11	CARBON	100K	5% 1/4W	
R163	1-247-897-11	CARBON	560K	5% 1/4W	
R164	1-247-897-11	CARBON	560K	5% 1/4W	
R165	1-249-433-11	CARBON	22K	5% 1/4W	
R166	1-249-422-11	CARBON	2.7K	5% 1/4W F	
R167	1-247-895-00	CARBON	470K	5% 1/4W	
R172	1-249-429-11	CARBON	10K	5% 1/4W	
R173	1-249-421-11	CARBON	2.2K	5% 1/4W F	

Ref. No.	Part No.	Description			Remarks
R182	1-249-421-11	CARBON	2.2K	5% 1/4W F	
R184	1-249-435-11	CARBON	33K	5% 1/4W	
R185	1-249-439-11	CARBON	68K	5% 1/4W	
R186	1-247-883-00	CARBON	150K	5% 1/4W	
R188	1-249-437-11	CARBON	47K	5% 1/4W	
R189	1-249-429-11	CARBON	10K	5% 1/4W	
R190	1-247-895-00	CARBON	470K	5% 1/4W	
R191	1-249-417-11	CARBON	1K	5% 1/4W F	
R192	1-249-437-11	CARBON	47K	5% 1/4W	
R193	1-249-441-11	CARBON	100K	5% 1/4W	
R194	1-249-417-11	CARBON	1K	5% 1/4W F	
R195	1-249-417-11	CARBON	1K	5% 1/4W F	
R196	1-249-429-11	CARBON	10K	5% 1/4W	
R340	1-247-843-11	CARBON	3.3K	5% 1/4W	
R401	1-249-421-11	CARBON	2.2K	5% 1/4W F	
R402	1-249-422-11	CARBON	2.7K	5% 1/4W F	
R403	1-249-426-11	CARBON	5.6K	5% 1/4W	
R404	1-249-439-11	CARBON	68K	5% 1/4W	
R405	1-249-433-11	CARBON	22K	5% 1/4W	
R406	1-249-433-11	CARBON	22K	5% 1/4W	
R407	1-249-433-11	CARBON	22K	5% 1/4W	
R408	1-249-425-11	CARBON	4.7K	5% 1/4W F	
R409	1-249-437-11	CARBON	47K	5% 1/4W	
R410	1-249-421-11	CARBON	2.2K	5% 1/4W F	
R411	1-249-429-11	CARBON	10K	5% 1/4W	
R412	1-249-429-11	CARBON	10K	5% 1/4W	
R413	1-249-421-11	CARBON	2.2K	5% 1/4W F	
R414	1-247-903-00	CARBON	1M	5% 1/4W	
R415	1-249-433-11	CARBON	22K	5% 1/4W	
R416	1-249-437-11	CARBON	47K	5% 1/4W	
R417	1-249-437-11	CARBON	47K	5% 1/4W	
R418	1-247-903-00	CARBON	1M	5% 1/4W	
R419	1-249-433-11	CARBON	22K	5% 1/4W	
R420	1-249-429-11	CARBON	10K	5% 1/4W	
R701	1-247-807-31	CARBON	100	5% 1/4W	
R702	1-247-807-31	CARBON	100	5% 1/4W	
R705	1-247-807-31	CARBON	100	5% 1/4W	
R706	1-247-807-31	CARBON	100	5% 1/4W	
R707	1-247-807-31	CARBON	100	5% 1/4W	
R708	1-247-807-31	CARBON	100	5% 1/4W	
R709	1-247-807-31	CARBON	100	5% 1/4W	
R710	1-247-807-31	CARBON	100	5% 1/4W	
R711	1-247-807-31	CARBON	100	5% 1/4W	
R712	1-247-807-31	CARBON	100	5% 1/4W	
R714	1-247-807-31	CARBON	100	5% 1/4W	
R715	1-247-807-31	CARBON	100	5% 1/4W	
R716	1-247-807-31	CARBON	100	5% 1/4W	
R717	1-247-807-31	CARBON	100	5% 1/4W	
R731	1-249-429-11	CARBON	10K	5% 1/4W	
R732	1-249-429-11	CARBON	10K	5% 1/4W	
R733	1-249-425-11	CARBON	4.7K	5% 1/4W F	
R751	1-249-432-11	CARBON	18K	5% 1/4W	
R752	1-249-439-11	CARBON	68K	5% 1/4W	
R757	1-249-435-11	CARBON	33K	5% 1/4W	
⚠R758	1-215-893-11	METAL OXIDE	1.5K	5% 2W F	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remarks
R761	1-249-432-11	CARBON	18K	5%	1/4W
R762	1-249-437-11	CARBON	47K	5%	1/4W
R767	1-249-435-11	CARBON	33K	5%	1/4W
R781	1-260-101-11	CARBON	1.5K	5%	1/2W
					(EXCEPT EA4,TH,JE)
R782	1-260-101-11	CARBON	1.5K	5%	1/2W
					(EXCEPT EA4,TH,JE)
R783	1-260-101-11	CARBON	1.5K	5%	1/2W
					(EXCEPT EA4,TH,JE)
R784	1-260-101-11	CARBON	1.5K	5%	1/2W
					(EXCEPT EA4,TH,JE)
R801	1-249-431-11	CARBON	15K	5%	1/4W
R802	1-249-431-11	CARBON	15K	5%	1/4W
R803	1-249-429-11	CARBON	10K	5%	1/4W
⚠R804	1-212-982-00	FUSIBLE	100	5%	1/2W F
R851	1-249-431-11	CARBON	15K	5%	1/4W
R852	1-249-435-11	CARBON	33K	5%	1/4W
R853	1-249-429-11	CARBON	10K	5%	1/4W
R854	1-249-397-11	CARBON	22	5%	1/4W F
R855	1-249-441-11	CARBON	100K	5%	1/4W
R856	1-249-429-11	CARBON	10K	5%	1/4W
R857	1-249-433-11	CARBON	22K	5%	1/4W
		< RELAY >			
RY751	1-755-168-11	RELAY			
		< TERMINAL >			
TB751	1-537-240-31	TERMINAL BOARD (CHECKER PIN)			
					(FRONT SPEAKER)
**********					
*	A-4419-953-A	MIC/ECHO BOARD, COMPLETE			
		**********			
					(EXCEPT EA4,TH,JE)
*	A-4414-778-A	MIC/ECHO BOARD, COMPLETE (EA4,TH)			
		**********			
*	A-4414-718-A	MIC/ECHO BOARD, COMPLETE (JE)			
		**********			
		< CAPACITOR >			
C6001	1-162-306-11	CERAMIC	0.01uF	20%	16V
C6002	1-124-257-00	ELECT	2.2uF	20%	50V
C6003	1-162-306-11	CERAMIC	0.01uF	20%	16V (JE)
C6004	1-124-257-00	ELECT	2.2uF	20%	50V
C6005	1-162-294-31	CERAMIC	0.001uF	10%	50V
C6006	1-162-215-31	CERAMIC	47PF	5%	50V
C6007	1-162-290-31	CERAMIC	470PF	10%	50V
C6008	1-126-157-11	ELECT	10uF	20%	16V
C6009	1-124-465-00	ELECT	0.47uF	20%	50V
C6010	1-162-215-31	CERAMIC	47PF	5%	50V
C6011	1-162-282-31	CERAMIC	100PF	10%	50V
C6012	1-126-157-11	ELECT	10uF	20%	16V
C6014	1-124-257-00	ELECT	2.2uF	20%	50V
C6015	1-126-160-11	ELECT	1uF	20%	50V (JE)
C6016	1-126-967-11	ELECT	47uF	20%	16V (JE)
C6017	1-164-159-11	CERAMIC	0.1uF		50V (JE)
C6018	1-126-967-11	ELECT	47uF	20%	16V (JE)
C6019	1-136-495-11	FILM	0.068uF	5%	50V (JE)
C6020	1-162-305-11	CERAMIC	0.0068uF	30%	16V (JE)
C6021	1-162-294-31	CERAMIC	0.001uF	10%	50V (JE)

Ref. No.	Part No.	Description			Remarks
C6022	1-126-160-11	ELECT	1uF	20%	50V (JE)
C6023	1-161-494-00	CERAMIC	0.022uF		25V (JE)
C6024	1-136-167-00	FILM	0.15uF	5%	50V (JE)
C6025	1-126-957-11	ELECT	0.22uF	20%	50V (JE)
C6026	1-126-957-11	ELECT	0.22uF	20%	50V (JE)
C6027	1-136-495-11	FILM	0.068uF	5%	50V (JE)
C6028	1-162-294-31	CERAMIC	0.001uF	10%	50V (JE)
C6029	1-162-305-11	CERAMIC	0.0068uF	30%	16V (JE)
C6031	1-162-306-11	CERAMIC	0.01uF	20%	16V (JE)
		< CONNECTOR >			
CN6001	1-506-469-11	PIN, CONNECTOR 4P			
		< DIODE >			
D6001	8-719-911-19	DIODE 1SS119-25 (JE)			
D6002	8-719-911-19	DIODE 1SS119-25 (JE)			
D6003	8-719-911-19	DIODE 1SS119-25 (JE)			
		< EARTH >			
* E6001	1-537-738-21	TERMINAL, EARTH			
		< IC >			
IC6001	8-759-634-51	IC M5218AP			
IC6002	8-759-450-96	IC M65850P (JE)			
		< JACK >			
J6001	1-770-226-11	JACK (LARGE TYPE)			
					(MIX MIC:EXCEPT JE)(MIC1:JE)
J6002	1-750-733-11	JACK (LARGE TYPE)(MIC2) (JE)			
		< COIL >			
L6011	1-410-521-11	INDUCTOR 100uH (JE)			
		< RESISTOR >			
R6001	1-249-429-11	CARBON	10K	5%	1/4W
R6002	1-249-417-11	CARBON	1K	5%	1/4W F
R6003	1-249-429-11	CARBON	10K	5%	1/4W
					(JE)
R6004	1-249-417-11	CARBON	1K	5%	1/4W F
					(JE)
R6005	1-249-441-11	CARBON	100K	5%	1/4W
R6006	1-249-417-11	CARBON	1K	5%	1/4W F
R6007	1-249-433-11	CARBON	22K	5%	1/4W
R6008	1-249-429-11	CARBON	10K	5%	1/4W
R6009	1-247-885-00	CARBON	180K	5%	1/4W
R6010	1-247-807-31	CARBON	100	5%	1/4W
R6011	1-249-433-11	CARBON	22K	5%	1/4W
					(JE)
R6012	1-247-881-00	CARBON	120K	5%	1/4W
					(JE)
R6013	1-249-433-11	CARBON	22K	5%	1/4W
					(JE)
R6014	1-249-433-11	CARBON	22K	5%	1/4W
					(JE)
R6015	1-249-433-11	CARBON	22K	5%	1/4W
					(JE)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

MIC/ECHO MOTOR PANEL

Ref. No.	Part No.	Description			Remarks
R6016	1-249-429-11	CARBON	10K	5%	1/4W F (JE)
R6017	1-249-437-11	CARBON	47K	5%	1/4W (JE)
R6018	1-249-433-11	CARBON	22K	5%	1/4W (JE)
R6019	1-249-433-11	CARBON	22K	5%	1/4W (JE)
R6020	1-249-431-11	CARBON	15K	5%	1/4W (JE)
		< VARIABLE RESISTOR >			
RV6001	1-225-410-11	RES, VAR, CARBON 50K (MIC LEVEL)			(EXECEPT JE)
RV6001	1-225-511-21	RES, VAR, CARBON 50K/50K			(MIC LEVEL, ECHO LEVEL)(JE)
**********					
*	1-669-965-11	MOTOR BOARD			
		**********			
		< CAPACITOR >			
C891	1-162-306-11	CERAMIC	0.01uF	20%	16V
C892	1-124-478-11	ELECT	100uF	20%	25V
C893	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
* CN892	1-568-941-11	PIN, CONNECTOR 3P			
		< DIODE >			
D891	8-719-947-16	DIODE MTZJ-T-72-5.1A			
		< IC >			
IC891	8-759-822-09	IC LB1641			
		< RESISTOR >			
R891	1-249-425-11	CARBON	4.7K	5%	1/4W F
R892	1-249-425-11	CARBON	4.7K	5%	1/4W F
R893	1-249-429-11	CARBON	10K	5%	1/4W
R894	1-249-413-11	CARBON	470	5%	1/4W F
**********					
*	A-4414-212-A	PANEL BOARD, COMPLETE(EXCEPT EA4,TH,JE)			
		**********			
*	A-4414-746-A	PANEL BOARD, COMPLETE (JE)			
		**********			
*	A-4414-793-A	PANEL BOARD, COMPLETE (EA4,TH)			
		**********			
*	4-900-849-01	HOLDER (FL)			
*	4-932-810-11	CUSHION (FL)			
		< CAPACITOR >			
C501	1-162-205-31	CERAMIC	18PF	5%	50V
C502	1-162-205-31	CERAMIC	18PF	5%	50V
C503	1-104-905-11	CAPACITOR	0.22F		5.5V
C505	1-164-159-11	CERAMIC	0.1uF		50V
C506	1-164-159-11	CERAMIC	0.1uF		50V
C507	1-164-159-11	CERAMIC	0.1uF		50V
C508	1-164-159-11	CERAMIC	0.1uF		50V
C509	1-124-589-11	ELECT	47uF	20%	16V
C510	1-162-306-11	CERAMIC	0.01uF	20%	16V
C513	1-162-284-31	CERAMIC	150PF	10%	50V

Ref. No.	Part No.	Description			Remarks
C514	1-162-284-31	CERAMIC	150PF	10%	50V
C517	1-162-303-11	CERAMIC	0.0033uF	30%	16V
C518	1-126-157-11	ELECT	10uF	20%	16V
C519	1-126-157-11	ELECT	10uF	20%	16V
C520	1-126-157-11	ELECT	10uF	20%	16V
C521	1-162-306-11	CERAMIC	0.01uF	20%	16V
C522	1-126-157-11	ELECT	10uF	20%	16V
C523	1-126-157-11	ELECT	10uF	20%	16V
C601	1-126-157-11	ELECT	10uF	20%	16V
C602	1-162-306-11	CERAMIC	0.01uF	20%	16V
C603	1-162-294-31	CERAMIC	0.001uF	10%	50V
C604	1-162-294-31	CERAMIC	0.001uF	10%	50V
C605	1-124-261-00	ELECT	10uF	20%	50V
C606	1-124-261-00	ELECT	10uF	20%	50V
C607	1-124-261-00	ELECT	10uF	20%	50V
C608	1-124-589-11	ELECT	47uF	20%	16V
C609	1-162-282-31	CERAMIC	100PF	10%	50V
C610	1-162-288-31	CERAMIC	330PF	10%	50V
C611	1-162-288-31	CERAMIC	330PF	10%	50V
C612	1-162-288-31	CERAMIC	330PF	10%	50V
C613	1-162-288-31	CERAMIC	330PF	10%	50V
C614	1-162-288-31	CERAMIC	330PF	10%	50V
C615	1-162-288-31	CERAMIC	330PF	10%	50V
C616	1-162-288-31	CERAMIC	330PF	10%	50V
C617	1-162-288-31	CERAMIC	330PF	10%	50V
C618	1-162-288-31	CERAMIC	330PF	10%	50V
C619	1-162-288-31	CERAMIC	330PF	10%	50V
C620	1-162-288-31	CERAMIC	330PF	10%	50V
C621	1-162-288-31	CERAMIC	330PF	10%	50V
C622	1-162-288-31	CERAMIC	330PF	10%	50V
C623	1-162-288-31	CERAMIC	330PF	10%	50V
C624	1-162-288-31	CERAMIC	330PF	10%	50V
C625	1-162-288-31	CERAMIC	330PF	10%	50V
		< CONNECTOR >			
* CN501	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P			
CN503	1-691-650-11	SOCKET, CONNECTOR 19P			
* CN504	1-565-835-11	SOCKET, CONNECTOR 3P			
CNP502	1-778-312-11	PLUG, CONNECTOR (PC BOARD) 30P			
		< DIODE >			
D501	8-719-024-99	DIODE 11ES2-NTA2B			
D502	8-719-911-19	DIODE 1SS119-25			
D504	8-719-911-19	DIODE 1SS119-25			
D505	8-719-911-19	DIODE 1SS119-25			
D506	8-719-911-19	DIODE 1SS119-25			
D507	8-719-911-19	DIODE 1SS119-25			
D509	8-719-024-99	DIODE 11ES2-NTA2B			
D511	8-719-118-62	DIODE RD5.6F-T7B1			
D512	8-719-046-80	DIODE SML19416W-TP4 (MOVIE)			
D513	8-719-046-80	DIODE SML19416W-TP4 (MOVIE)			
D514	8-719-046-80	DIODE SML19416W-TP4 (MUSIC)			
D515	8-719-046-80	DIODE SML19416W-TP4 (MUSIC)			
D516	8-719-046-80	DIODE SML19416W-TP4 (GAME)			
D517	8-719-046-80	DIODE SML19416W-TP4 (GAME)			
D518	8-719-046-80	DIODE SML19416W-TP4 (PLACE)			
D519	8-719-046-80	DIODE SML19416W-TP4 (PLACE)			
D520	8-719-046-80	DIODE SML19416W-TP4 (P FILE)			
D521	8-719-046-80	DIODE SML19416W-TP4 (P FILE)			
D522	8-719-046-44	DIODE SEL5221S (AUTO)			

Ref. No.	Part No.	Description			Remarks
		< FLUORESCENT INDICATOR >			
FL601	1-517-775-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC501	8-759-525-50	IC uPD780016AYGF-012-3BA			
IC502	8-759-165-82	IC PST600E-T			
IC503	8-749-011-22	IC GP1U27X			
IC505	8-759-140-53	IC UPD4053BC			
IC506	8-759-495-25	IC BA3833F-E2			
IC601	8-759-261-63	IC M66004M6FP			
		< COIL >			
L501	1-408-074-00	INDUCTOR 56uH			
L502	1-410-521-11	INDUCTOR 100uH			
		< TRANSISTOR >			
Q501	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q502	8-729-422-57	TRANSISTOR UN4111			
Q503	8-729-422-57	TRANSISTOR UN4111			
Q504	8-729-422-57	TRANSISTOR UN4111			
Q505	8-729-422-57	TRANSISTOR UN4111			
Q506	8-729-422-57	TRANSISTOR UN4111			
Q507	8-729-422-57	TRANSISTOR UN4111			
Q508	8-729-422-57	TRANSISTOR UN4111			
Q509	8-729-422-57	TRANSISTOR UN4111			
Q510	8-729-422-57	TRANSISTOR UN4111			
Q511	8-729-422-57	TRANSISTOR UN4111			
Q512	8-729-900-80	TRANSISTOR DTC114ES			
Q513	8-729-900-80	TRANSISTOR DTC114ES			
		< RESISTOR >			
R501	1-247-891-00	CARBON	330K	5%	1/4W
R502	1-249-433-11	CARBON	22K	5%	1/4W
R503	1-249-437-11	CARBON	47K	5%	1/4W
R504	1-249-437-11	CARBON	47K	5%	1/4W
R505	1-249-429-11	CARBON	10K	5%	1/4W
R506	1-249-429-11	CARBON	10K	5%	1/4W
R507	1-249-441-11	CARBON	100K	5%	1/4W
R512	1-249-429-11	CARBON	10K	5%	1/4W (EA4,TH)
R514	1-249-429-11	CARBON	10K	5%	1/4W (JE)
R516	1-249-427-11	CARBON	6.8K	5%	1/4W F
R517	1-249-427-11	CARBON	6.8K	5%	1/4W F
R518	1-247-807-31	CARBON	100	5%	1/4W
R519	1-247-807-31	CARBON	100	5%	1/4W
R520	1-247-807-31	CARBON	100	5%	1/4W
R521	1-247-807-31	CARBON	100	5%	1/4W
R522	1-247-807-31	CARBON	100	5%	1/4W
R523	1-247-807-31	CARBON	100	5%	1/4W
R524	1-247-807-31	CARBON	100	5%	1/4W
R525	1-247-807-31	CARBON	100	5%	1/4W
R526	1-247-807-31	CARBON	100	5%	1/4W
R527	1-247-807-31	CARBON	100	5%	1/4W
R528	1-247-807-31	CARBON	100	5%	1/4W
R529	1-247-807-31	CARBON	100	5%	1/4W
R530	1-247-807-31	CARBON	100	5%	1/4W
R531	1-247-807-31	CARBON	100	5%	1/4W

Ref. No.	Part No.	Description			Remarks
R532	1-247-807-31	CARBON	100	5%	1/4W
R533	1-247-807-31	CARBON	100	5%	1/4W
R534	1-247-807-31	CARBON	100	5%	1/4W
R535	1-247-807-31	CARBON	100	5%	1/4W
R536	1-247-807-31	CARBON	100	5%	1/4W
R537	1-247-807-31	CARBON	100	5%	1/4W
R538	1-247-807-31	CARBON	100	5%	1/4W
R539	1-247-807-31	CARBON	100	5%	1/4W
R540	1-247-807-31	CARBON	100	5%	1/4W
R541	1-247-807-31	CARBON	100	5%	1/4W
R542	1-247-807-31	CARBON	100	5%	1/4W
R543	1-247-807-31	CARBON	100	5%	1/4W
R544	1-247-807-31	CARBON	100	5%	1/4W
R546	1-249-441-11	CARBON	100K	5%	1/4W
R547	1-247-881-00	CARBON	120K	5%	1/4W
R548	1-249-433-11	CARBON	22K	5%	1/4W
R549	1-249-429-11	CARBON	10K	5%	1/4W
R550	1-249-409-11	CARBON	220	5%	1/4W F
R551	1-249-409-11	CARBON	220	5%	1/4W F
R552	1-247-807-31	CARBON	100	5%	1/4W
R553	1-247-807-31	CARBON	100	5%	1/4W
R554	1-247-807-31	CARBON	100	5%	1/4W
R555	1-247-807-31	CARBON	100	5%	1/4W
R556	1-247-807-31	CARBON	100	5%	1/4W
R557	1-247-807-31	CARBON	100	5%	1/4W
R558	1-247-807-31	CARBON	100	5%	1/4W
R559	1-247-807-31	CARBON	100	5%	1/4W
R560	1-247-807-31	CARBON	100	5%	1/4W
R561	1-247-807-31	CARBON	100	5%	1/4W
R562	1-247-807-31	CARBON	100	5%	1/4W
R563	1-247-807-31	CARBON	100	5%	1/4W
R564	1-247-807-31	CARBON	100	5%	1/4W
R565	1-247-807-31	CARBON	100	5%	1/4W
R566	1-247-807-31	CARBON	100	5%	1/4W
R567	1-247-807-31	CARBON	100	5%	1/4W
R568	1-247-807-31	CARBON	100	5%	1/4W
R569	1-249-407-11	CARBON	150	5%	1/4W F
R570	1-249-409-11	CARBON	220	5%	1/4W F
R571	1-249-411-11	CARBON	330	5%	1/4W
R572	1-249-411-11	CARBON	330	5%	1/4W
R573	1-249-413-11	CARBON	470	5%	1/4W F
R574	1-249-415-11	CARBON	680	5%	1/4W F
R575	1-249-417-11	CARBON	1K	5%	1/4W F
R576	1-249-419-11	CARBON	1.5K	5%	1/4W F
R577	1-249-421-11	CARBON	2.2K	5%	1/4W F
R578	1-247-843-11	CARBON	3.3K	5%	1/4W
R579	1-249-425-11	CARBON	4.7K	5%	1/4W F
R580	1-249-429-11	CARBON	10K	5%	1/4W
R581	1-249-433-11	CARBON	22K	5%	1/4W
R582	1-249-439-11	CARBON	68K	5%	1/4W
R583	1-247-807-31	CARBON	100	5%	1/4W
R584	1-249-407-11	CARBON	150	5%	1/4W F
R585	1-249-409-11	CARBON	220	5%	1/4W F
R586	1-249-411-11	CARBON	330	5%	1/4W
R587	1-249-411-11	CARBON	330	5%	1/4W
R588	1-249-413-11	CARBON	470	5%	1/4W F
R589	1-249-415-11	CARBON	680	5%	1/4W F
R590	1-249-417-11	CARBON	1K	5%	1/4W F
R591	1-249-419-11	CARBON	1.5K	5%	1/4W F
R592	1-249-421-11	CARBON	2.2K	5%	1/4W F

PANEL POWER AMP

Ref. No.	Part No.	Description			Remarks
R593	1-247-843-11	CARBON	3.3K	5%	1/4W
R594	1-249-425-11	CARBON	4.7K	5%	1/4W F
R595	1-249-429-11	CARBON	10K	5%	1/4W
R596	1-249-433-11	CARBON	22K	5%	1/4W
R597	1-249-403-11	CARBON	68	5%	1/4W F
R598	1-249-403-11	CARBON	68	5%	1/4W F
R599	1-249-403-11	CARBON	68	5%	1/4W F
R600	1-249-403-11	CARBON	68	5%	1/4W F
R601	1-249-403-11	CARBON	68	5%	1/4W F
R602	1-249-403-11	CARBON	68	5%	1/4W F
R603	1-249-403-11	CARBON	68	5%	1/4W F
R604	1-249-403-11	CARBON	68	5%	1/4W F
R605	1-249-403-11	CARBON	68	5%	1/4W F
R606	1-249-403-11	CARBON	68	5%	1/4W F
R607	1-249-415-11	CARBON	680	5%	1/4W F
R608	1-247-807-31	CARBON	100	5%	1/4W
R614	1-249-434-11	CARBON	27K	5%	1/4W
R615	1-249-429-11	CARBON	10K	5%	1/4W
R616	1-249-429-11	CARBON	10K	5%	1/4W
R617	1-249-417-11	CARBON	1K	5%	1/4W F
R618	1-247-843-11	CARBON	3.3K	5%	1/4W
R619	1-249-437-11	CARBON	47K	5%	1/4W
R621	1-247-843-11	CARBON	3.3K	5%	1/4W
R622	1-247-843-11	CARBON	3.3K	5%	1/4W
R623	1-249-425-11	CARBON	4.7K	5%	1/4W F
		< SWITCH >			
S501	1-762-378-11	SWITCH, TACTILE (EQ 16kHz +)			
S502	1-762-378-11	SWITCH, TACTILE (NAME IN)			
S503	1-762-378-11	SWITCH, TACTILE (CHAR)			
S504	1-762-378-11	SWITCH, TACTILE (EQ MEMORY)			
S505	1-762-378-11	SWITCH, TACTILE (OPEN/CLOSE)			
S506	1-762-378-11	SWITCH, TACTILE (TUNER BAND)			
S507	1-762-378-11	SWITCH, TACTILE (STEREO/MONO)			
S508	1-762-378-11	SWITCH, TACTILE (MEMORY)			
S509	1-762-875-21	SWITCH, KEY BOARD (KARAOKE PONMPX)			
S510	1-762-378-11	SWITCH, TACTILE (OPEN SENSOR ON/OFF)			
S511	1-762-378-11	SWITCH, TACTILE (INSERT)			
S512	1-762-378-11	SWITCH, TACTILE (DELETE)			
S513	1-762-378-11	SWITCH, TACTILE (EQ 16kHz –)			
S514	1-762-378-11	SWITCH, TACTILE (FUNCTION)			
S515	1-762-378-11	SWITCH, TACTILE (TIMER SELECT)			
S516	1-762-378-11	SWITCH, TACTILE (CLOCK/TIMER SET)			
S517	1-762-378-11	SWITCH, TACTILE (1/u)			
S518	1-762-378-11	SWITCH, TACTILE (DISPLAY/DEMO)			
S520	1-762-378-11	SWITCH, TACTILE (SURROUND +)			
S521	1-762-378-11	SWITCH, TACTILE (SURROUND –)			
S522	1-762-378-11	SWITCH, TACTILE (DBFB –)			
S523	1-762-378-11	SWITCH, TACTILE (DBFB +)			
S524	1-762-378-11	SWITCH, TACTILE (EQ 63Hz +)			
S525	1-762-378-11	SWITCH, TACTILE (EQ 63Hz –)			
S526	1-762-378-11	SWITCH, TACTILE (EQ 250Hz –)			
S527	1-762-378-11	SWITCH, TACTILE (EQ 250Hz +)			
S528	1-762-378-11	SWITCH, TACTILE (EQ 1kHz +)			
S529	1-762-378-11	SWITCH, TACTILE (EQ 1kHz –)			
S530	1-762-378-11	SWITCH, TACTILE (EQ 4kHz –)			
S531	1-762-378-11	SWITCH, TACTILE (EQ 4kHz +)			

Ref. No.	Part No.	Description			Remarks
		< VIBRATOR >			
X501	1-760-489-11	VIBRATOR, CERAMIC (5MHz)			
X502	1-567-098-41	VIBRATOR, CRYSTAL (32kHz)			
**********					
*	A-4419-954-A	POWER AMP BOARD, COMPLETE			
		**********			
					(EXCEPT EA4,TH,JE)
*	A-4426-828-A	POWER AMP BOARD, COMPLETE (JE)			
		**********			
*	A-4414-793-A	POWER AMP BOARD, COMPLETE (EA4,TH)			
		**********			
		< CAPACITOR >			
C901	1-126-963-11	ELECT	4.7uF	20%	50V
C902	1-162-294-31	CERAMIC	0.001uF	10%	50V
C903	1-162-282-31	CERAMIC	100PF	10%	50V
C904	1-126-967-11	ELECT	47uF	20%	50V
C905	1-126-967-11	ELECT	47uF	20%	50V
C906	1-136-495-11	FILM	0.068uF	5%	50V
C907	1-136-495-11	FILM	0.068uF	5%	50V
C932	1-128-560-11	ELECT	22uF	20%	100V
C933	1-128-581-11	ELECT	4.7uF	20%	100V
C934	1-128-552-51	ELECT	47uF	20%	63V
C936	1-162-282-31	CERAMIC	100PF	10%	50V
C937	1-128-560-11	ELECT	22uF	20%	100V
C938	1-126-934-11	ELECT	220uF	20%	16V
C940	1-128-581-11	ELECT	4.7uF	20%	100V
C951	1-126-963-11	ELECT	4.7uF	20%	50V
C952	1-162-294-31	CERAMIC	0.001uF	10%	50V
C953	1-162-282-31	CERAMIC	100PF	10%	50V
C954	1-126-967-11	ELECT	47uF	20%	50V
C955	1-126-967-11	ELECT	47uF	20%	50V
C956	1-136-495-11	FILM	0.068uF	5%	50V
C957	1-136-495-11	FILM	0.068uF	5%	50V
		< CONNECTOR >			
CN902	1-691-770-11	PLUG (MICRO CONNECTOR) 8P			
		< DIODE >			
D903	8-719-911-19	DIODE 1SS119-25			
D941	8-719-911-19	DIODE 1SS119-25			
D953	8-719-911-19	DIODE 1SS119-25			
		< IC >			
IC901	8-749-010-34	IC STK-4241MK-2			
		< TRANSISTOR >			
Q131	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q181	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q901	8-729-900-36	TRANSISTOR DTC124ES			
Q902	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			
Q952	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			
Q971	8-729-900-36	TRANSISTOR DTC124ES			
Q972	8-729-119-76	TRANSISTOR 2SC2785TP-HFE			

Ref. No.	Part No.	Description			Remarks
		< RESISTOR >			
R133	1-249-425-11	CARBON	4.7K	5%	1/4W F
R134	1-249-437-11	CARBON	47K	5%	1/4W
R183	1-249-425-11	CARBON	4.7K	5%	1/4W F
R184	1-249-437-11	CARBON	47K	5%	1/4W
R901	1-249-417-11	CARBON	1K	5%	1/4W F
R902	1-249-437-11	CARBON	47K	5%	1/4W
R903	1-249-412-11	CARBON	390	5%	1/4W F
R904	1-249-437-11	CARBON	47K	5%	1/4W
R906	1-249-429-11	CARBON	10K	5%	1/4W
R907	1-249-429-11	CARBON	10K	5%	1/4W
R908	1-249-429-11	CARBON	10K	5%	1/4W
R909	1-249-429-11	CARBON	10K	5%	1/4W
R910	1-249-397-11	CARBON	22	5%	1/4W F
R911	1-249-397-11	CARBON	22	5%	1/4W F
R913	1-249-417-11	CARBON	1K	5%	1/4W F
R914	1-249-431-11	CARBON	15K	5%	1/4W
R915	1-249-441-11	CARBON	100K	5%	1/4W
⚠R920	1-217-156-00	REGISTER	0.22	10%	5W F
⚠R932	1-212-881-11	FUSIBLE	100	5%	1/4W F
R933	1-249-421-11	CARBON	2.2K	5%	1/4W F
R934	1-249-421-11	CARBON	2.2K	5%	1/4W F
R935	1-249-421-11	CARBON	2.2K	5%	1/4W F
R936	1-249-421-11	CARBON	2.2K	5%	1/4W F
R937	1-249-429-11	CARBON	10K	5%	1/4W
R938	1-247-885-00	CARBON	180K	5%	1/4W
R940	1-249-429-11	CARBON	10K	5%	1/4W
R941	1-249-429-11	CARBON	10K	5%	1/4W
R942	1-249-413-11	CARBON	470	5%	1/4W F
⚠R943	1-212-881-11	FUSIBLE	100	5%	1/4W F
R945	1-249-417-11	CARBON	1K	5%	1/4W F
R951	1-249-417-11	CARBON	1K	5%	1/4W F
R952	1-249-437-11	CARBON	47K	5%	1/4W
R953	1-249-412-11	CARBON	390	5%	1/4W F
R954	1-249-437-11	CARBON	47K	5%	1/4W
R956	1-249-429-11	CARBON	10K	5%	1/4W
R957	1-249-429-11	CARBON	10K	5%	1/4W
R958	1-249-429-11	CARBON	10K	5%	1/4W
R959	1-249-429-11	CARBON	10K	5%	1/4W
R960	1-249-397-11	CARBON	22	5%	1/4W F
R961	1-249-397-11	CARBON	22	5%	1/4W F
R963	1-249-417-11	CARBON	1K	5%	1/4W F
R964	1-249-431-11	CARBON	15K	5%	1/4W
R965	1-249-441-11	CARBON	100K	5%	1/4W
⚠R970	1-220-893-11	METAL	0.22	10%	5W
R971	1-249-441-11	CARBON	100K	5%	1/4W
R972	1-247-885-00	CARBON	180K	5%	1/4W
R973	1-249-441-11	CARBON	100K	5%	1/4W
⚠R974	1-212-849-00	FUSIBLE	4.7	5%	1/4W F
**********					
*	1-669-953-11	PRIMARY BOARD			
		**********			
	1-533-293-11	FUSE HOLDER (E,EA3,SP,MY,AR,TW,JE)			
		< CONNECTOR >			
CN871	1-564-321-00	PIN, CONNECTOR 2P			

Ref. No.	Part No.	Description			Remarks
		< FUSE >			
⚠F873	1-532-506-51	FUSE T6.3AL/250V (E,EA3,SP,MY,AR,TW,JE)			
**********					
*	1-669-954-12	SECONDARY BOARD			
		**********			
	1-533-293-11	FUSE HOLDER			
		< FUSE >			
⚠F874	1-532-949-31	FUSE TIME LAG 8A 250V			
⚠F875	1-532-949-31	FUSE TIME LAG 8A 250V			
		< RESISTOR >			
⚠R871	1-219-119-81	FUSIBLE	0.1	5%	1/4W F
⚠R872	1-219-119-81	FUSIBLE	0.1	5%	1/4W F
⚠R873	1-219-120-11	FUSIBLE	0.15	5%	1/4W F
⚠R874	1-219-120-11	FUSIBLE	0.15	5%	1/4W F
		< SWITCH >			
⚠S871	1-771-291-11	SWITCH, POWER (VOLTAGE SELECTOR) (E,EA3,SP,MY,AR,TW,JE)			
**********					
*	1-669-963-11	SURR SPK BOARD			
		**********			
		< CAPACITOR >			
C202	1-104-666-11	ELECT	220uF	20%	25V
C203	1-162-306-11	CERAMIC	0.01uF	20%	16V
		< CONNECTOR >			
* CN201	1-569-505-11	PIN, CONNECTOR 10P			
CN202	1-564-506-11	PLUG, CONNECTOR 3P			
CN781	1-506-468-11	PIN, CONNECTOR 3P			
		< DIODE >			
D201	8-719-024-99	DIODE 11ES2-NTA2B			
D782	8-719-911-19	DIODE 1SS119-25			
		< GROUND >			
* E781	4-870-539-11	PLATE, GROUND			
		< JACK >			
J781	1-785-011-11	JACK, PIN 2P (MONITOR/WOOFER OUT)			
		< RELAY >			
RY781	1-515-622-11	RELAY			
		< TERMINAL >			
TB201	1-537-925-31	TERMINAL BOARD (REAR SPEAKER)			
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The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remarks
		MISCELLANEOUS	
		**********	
3	1-773-125-11	WIRE (FLAT TYPE) (19 CORE)	
153	1-233-545-32	ENCAPSULATED COMPONENT (TUNER UNIT)(E,EA4,TH,AUS,AR)	
153	1-233-546-32	ENCAPSULATED COMPONENT (TUNER UNIT) (EA3,MY,SP,TW)	
153	1-693-385-31	TUNER (JE)	
⚠160	1-575-653-11	CORD, POWER (TH)	
⚠160	1-696-847-11	CORD, POWER (AUS)	
⚠160	1-777-071-21	CORD, POWER (EA,SP,MY,TW)	
⚠160	1-783-525-11	CORD, POWER (TRACKING)(JE)	
⚠160	1-783-940-11	CORD, POWER (AR)	
⚠161	1-569-007-11	ADAPTOR, CONVERSION 2P (E,JE)	
⚠161	1-569-008-21	ADAPTOR, CONVERSION 2P (EA3,SP,MY,TW)	
FL601	1-517-775-11	INDICATOR TUBE, FLUORESCENT	
IC504	8-719-070-85	DIODE KU381-40	
M891	A-4660-926-A	MOTOR (CDM) ASSY	
M901	1-763-372-11	FAN, DC	
⚠T901	1-433-932-11	TRANSFORMER, POWER	
**********			
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-647-79	SCREW +BVTP 3 × 10 TYPE2 N-S	
#2	7-685-646-79	SCREW +BVTP 3 × 8 TYPE2 N-S	
#3	7-621-775-20	SCREW +B 2.6 × 5	
#4	7-685-650-79	SCREW +BVTP 3 × 16 TYPE2 IT-3	
#5	7-685-881-09	SCREW +BVTT 4 × 8 (S)	
#6	7-685-872-09	SCREW +BVTT 3 × 8 (S)	
#7	7-685-546-19	SCREW +BVP 3 × 8	

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Replace only with part number specified.

Sony Corporation
Home Audio Company

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